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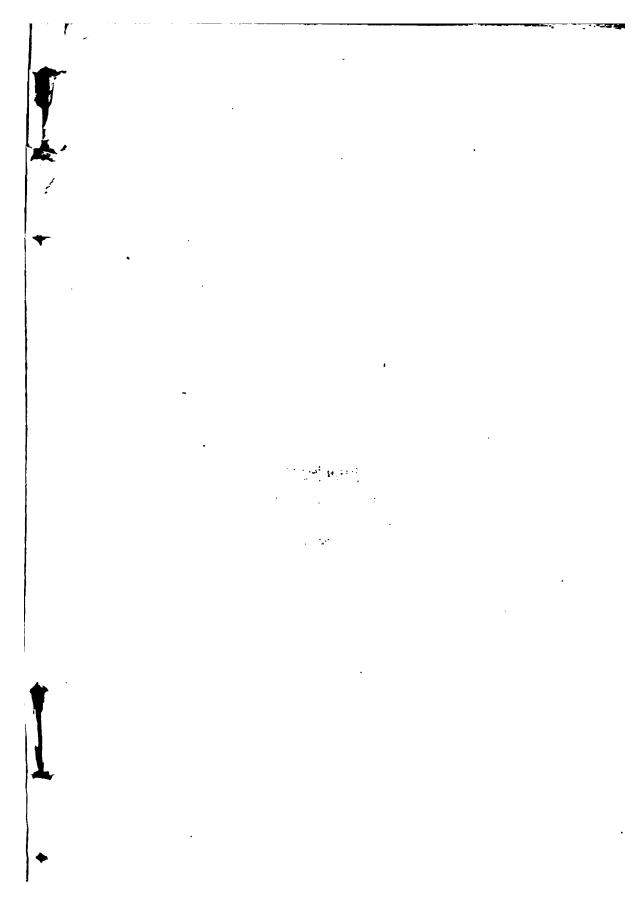
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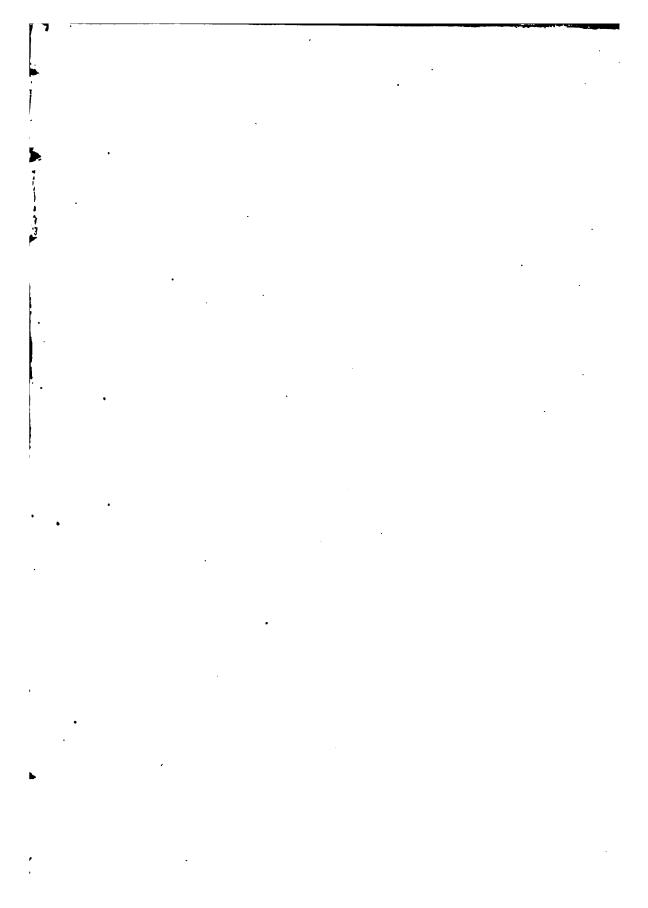
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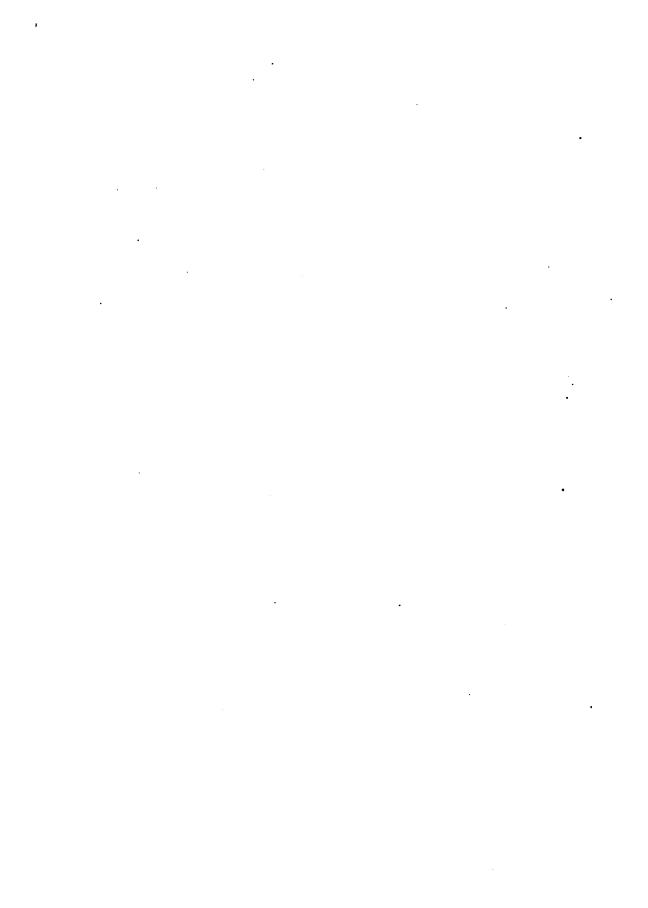
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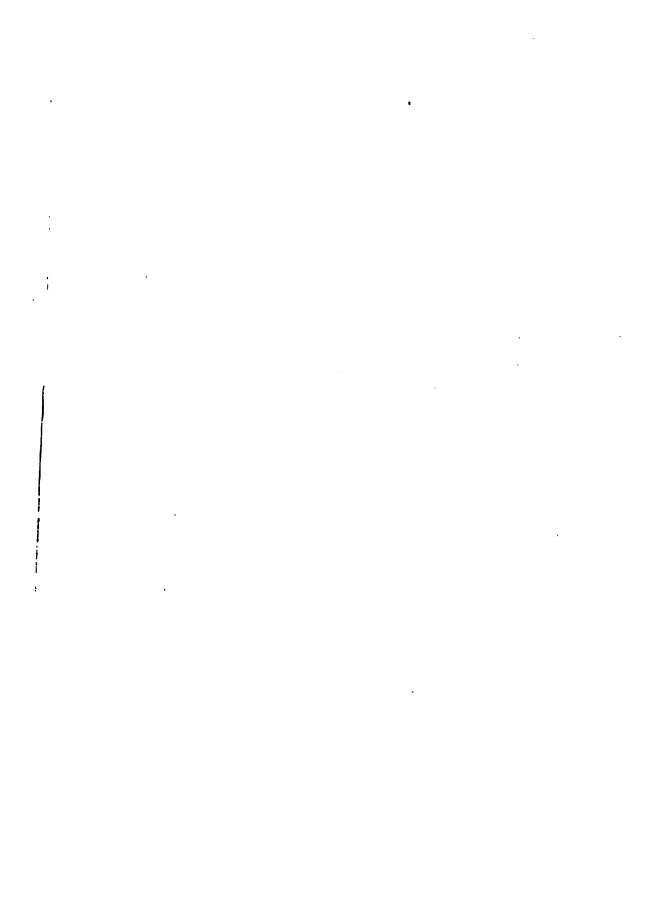
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C. & W. M. R



PETOSKEY



TWENTY-FIFTH ANNUAL REPORT

COMMISSIONER OF RAILROADS

OF THE

STATE OF MICHIGAN

FOR THE YEAR 1897



BY AUTHORITY



LANSING, MICH.
ROBERT SMITH PRINTING CO., STATE PRINTERS AND BINDERS
1897

OFFICERS OF THE DEPARTMENT.

1897.

SYBRANT WESSELIUS, Kent Co., Commissioner.

WILLIAM W. WEDEMEYER, WASHTENAW Co., Deputy Commissioner.

ELLIOTT F. MOORE, SAGINAW Co., Mechanical Engineer.

OFFICIAL ADDRESS:

LANSING, - - MICHIGAN.

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COMMISSIONERS OF RAILROADS.

DEPARTMENT CREATED APRIL 10, 1873. TERM OF OFFICE TWO YEARS.

STEPHEN S. COBB,	Appointed April 25, 1873
	May 1, 1877
WM. B. WILLIAMS,	
WM. P. INNIS,	January 12, 1883
	January 15, 1885
WM. McPHERSON, Jr.,	
	January 12, 1887
JUHN 1. 141011	January 14, 1891
CHAS. R. WHITMAN,	
	January 10, 1893
SIMEON R. BILLINGS,	
SYBRANT WESSELIUS,	January 14, 1897

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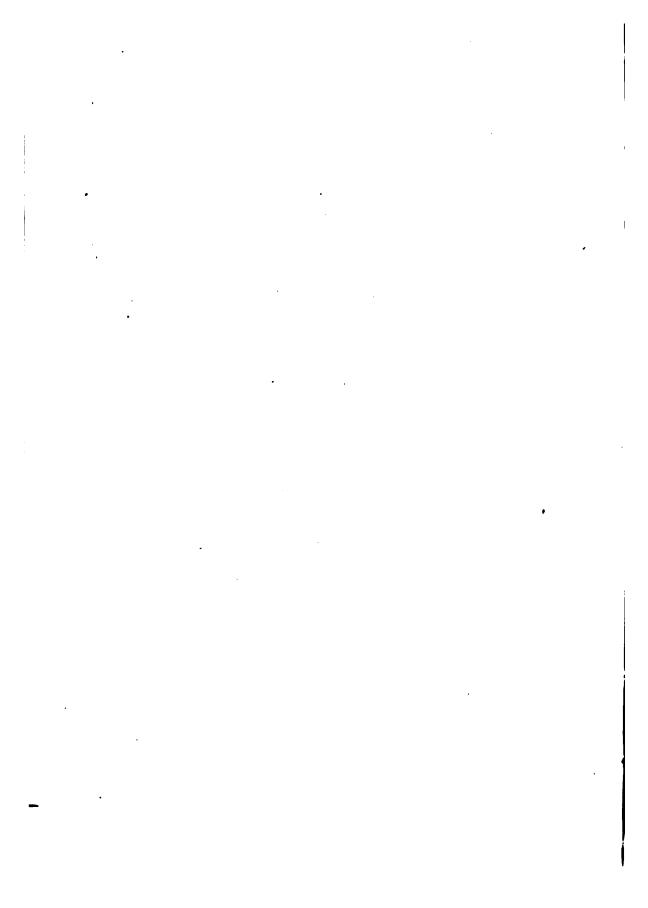
OF RAILROAD CORPORATIONS OWNING AND OPERATING ROADS WITHIN THE STATE OF MICHIGAN.

MADE TO THE COMMISSIONER OF RAILROADS FOR THE YEAR END-ING DECEMBER 31, 1896.

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REPORT.

STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILROADS, Lansing, December 31, 1897.

Honorable Hazen S. Pingree, Governor of Michigan:

Sir—In compliance with the requirements of section 3294 of Howell's Annotated Statutes of the State of Michigan, I herewith submit my

annual report for the year ending December 31, 1897.

Except as hereinafter specified provision is made in the organic law of this department for the employment of a corps of competent assistants, through the aid of which the work for the past year has been taken up and completed with the success indicated in the report herewith submitted to vou.

BAILBOAD CORPORATIONS.

Eighty-one railroads are doing business in the State of Michigan under the general railroad law; and in addition thereto, eight ore and forest roads are operated and doing business in Michigan; all of which make annual reports to this department.

The total railroad mileage of Michigan is 9,958.15, of which 2,165.86 miles are sidings and spurs; 23.21 miles are reported as main second track, and 7,759.08 miles are reported as main track. These figures are based upon the reports of the railroad companies made to this department for the year ending December 31, 1896. During the year covered by the reports there were built 150.47 miles of additional track, consisting mainly of additions to the existing lines of railroads. During the current year, 1897, there has been increased activity in railroad projection and building. Articles of incorporation have been filed with the Secretary of State for the incorporation of six additional companies under the provision of the general railroad law. These companies have filed maps in this department providing for the construction of 247 miles of main track, most of which is now in process of construction, and all of which will have trains operated thereon during the coming year. In addition to the lines projected by the roads above referred to, there

have been built during the current year, 132.04 miles of railroad, making a total of new lines and hies in process of construction 379.04 miles, as compared with 96.11 miles in 1895; .67 miles in 1894; 64.46 miles in 1893, and 172.43 miles in 1892. In addition thereto it may be added that the reports to this department disclose that the year 1897 has witnessed the largest increase of railroad mileage in this State during the history of the department, with the exception of the years 1881 and 1888.

While this department has no detailed record of the number of miles of suburban electric lines constructed during the last two years in Michigan, it should not be forgotten that these companies, as now organized, are conducting a business kindred to that of the steam railroads; and that in computing the increased railroad mileage of Michigan they should not be forgotten in considering the development of

the State's transportation facilities.

In order to form a just estimate, not only of the cause for the present activity in the lines of railway extension in this State, but as well to aid in forming an estimate of its future prospects in that regard, I have the honor to submit an article upon the subject of Michigan and its resources, which is embodied in this report.

The following table shows the increase of new line built in Michigan

during the past twenty-five years.

Track mileage—Road owned in Michigan.

Year.	Miles.	Inc	crease.
ienr.	Miles.	Year.	Amount.
1872 1873 1874 1876 1876	2,975.76 3,258.01 3,314.98 3,346.21 3,410.67	1878 1874 1875 1876	277.25 61.97 81.28 64.46
Increase during 5 years			434.91
1877	8,455.20 3,564.26 3,657.74 8,823.95 4,252.58	1877 1878 1879 1880 1881	44.58 109.06 98.48 166.21 428.68
Increase during 5 years			841.91 1,276.82
	4,609.00 4,965.88 5,120.94 5,247.48 5,577.63	1882 1883 1884 1885 1886	356.42 356.88 155.06 126.54 390.15
Increase during 5 years.			1,325.05
1887 1888 1899 1890 1890	5,768.41 6,411.66 6,759.55 6,957.27 7,274.94	1887 1888 1889 1890 1891	190.78 643.25 347.89 197.72 317.67
Increase during 5 years.			1,697.31
1892 1898 1894 1895	7,447.37% 7,511.88% 7,512.50% 7,608.61% 7,759.08%	1892 1893 1894 1895 1896	172.4334 64.46 .67 96.11 150.47
Increase during 5 years.			484.141/ 4,783.321/

COST OF BAILEOADS OPERATING IN MICHIGAN AS EVIDENCED BY CAPITAL STOCK AND INDEBTEDNESS—FUNDED AND UNFUNDED.

For the calendar year ending December 31, 1896, reports of the companies operating in Michigan show that they are capitalized for \$421,498,229.47, divided into shares of \$100 each, of which \$11,131,289.98 is held in Michigan. The stock is held by 24,258 stockholders, 893 of whom are residents of this State, about 97 per cent being held by non-residents.

The funded and unfunded debt of railroads operating in Michigan, as represented by their bonds and unfunded accounts, is \$650,725,491.22, making the total cost of railroads operating in Michigan, as evidenced by their indebtedness last named and their capital stock, \$1,072,223,720.69.

The most cursory examination of these figures will show that this amount is far in excess of the actual cost of the properties, and that in this State, as elsewhere, railroads have been bonded beyond their actual cost in many instances, and in addition thereto they have been stocked for an amount far in excess of their actual cost.

EXCESSIVE CAPITALIZATION AND BONDING.

While it has been maintained with some force that in the early development of the State's resources it became necessary to build railroads for the purpose chiefly of offering fruitful fields for speculation in their stocks and bonds, and that upon that basis alone their construction and maintenance was possible, yet it must be now generally admitted upon all sides that this necessity, if it ever has existed, has ceased to be of force. It is no longer necessary to overburden these properties, nor is it longer profitable to do so. The era when investors were willing to invest their means in artificial values has well-nigh passed by, although occasionally it is still possible to impose upon certain portions of the public by floating inflated stocks and bonds. As long as this practice is permitted to continue, as it is under the present laws of Michigan, the State will permit the possible fraud that may be committed thereby in the sale of worthless securities, and in addition thereto will make it difficult, if desirable, to regulate transportation charges of all kinds and reduce them to a proper sum on account of the heavy burden resting upon the companies.

In view of this situation, it appears to this department that the Legislature should at once enact a law prohibiting railroad corporations from bonding and stocking themselves for more than their actual cost. A proper officer or board should be vested with the power to make exact inventory of the assets of the company seeking to stock and bond itself, and have the power to prohibit an overissue of either. All refunding schemes affecting corporations now in existence should also be under the supervision and control of this authority. The enactment of such statute would not hamper the companies in any respect, but simply place them upon the same basis as other lines of legitimate business.

BAILBOAD TAXATION.

This department has heretofore had the honor to furnish your Excellency with the data at its command upon the subject of the proper taxation of railroads. I deem it unnecessary, therefore, to enter upon an extended review of that question, as presented by the records and files of this department, respectfully referring to the work accomplished in that behalf by your direction.

Much study has been given by the department to this subject, and I herewith respectfully submit some general conclusions for your consideration, as follows:

First, An increase of the tax upon railroad properties should be accomplished by a general revision of the law taxing all quasi public corporations, and should not be limited to railroads only, as evidenced by the following table, showing amount of taxes paid by certain corporations of this class for year ending July 1st, 1896.

Express	\$2,742.34
Insurance	
Freight, palace and sleeping cars	
Railroad companies	
River improvements	
Plank road	
Telegraph and telephone	
	\$1 002 312 40

It should be borne in mind that many corporations of this class pay practically no tax at all.

Second. In the interest of fairness and to compel the property to pay its just contribution to the public burden, a specific tax or a tax on incomes should be abolished;

Third, In determining the value to be placed upon railroad property, the franchise owned by the company should be valued and taxed on the basis of the company's earnings; but the earnings should affect the tax in no other particular;

Fourth, The values for the purposes of taxation, in the opinion of this department, should be fixed by a State board with a corps of competent assistants able to deal justly with the property, and for the purposes of removing the subject of taxing these properties from local prejudice or possible incompetency in the local assessing officer;

Fifth, All taxes realized from railroads and other corporations, on the plan above suggested, should be paid directly to the State Treasurer and applied to the primary school fund so far as deemed expedient; the balance, if any, to be paid into the general fund;

Sixth, A penalty should be inserted in the law so severe that the delays in the courts by appeals will be obtained only at the risk of large expense in the end to the corporation appealing. The question is the most important with which this department has had to deal, and it

is gratifying to know that there is a well-founded hope that the whole matter will be finally determined without that clash between the people and the corporate interests of the State that was at first threatened.

The want of serious attention given to this and other matters of legislation affecting so-called railroad bills would perhaps not bear out this hope, but with a better understanding of the subject matter by the people and the railroads as well the history made by the Legislature thereon as given below cannot be repeated.

HISTORY OF RAILROAD LEGISLATION.

The railroad department herewith submits its record of railroad legislation considered by the Legislature of 1897-98 at its first session:

Senator Robinson introduced a bill the object of which was to reduce rates of passenger fare on the railroads of the Upper Peninsula.

This bill was placed on the general order April 22; considered in committee of the whole; failed to pass; reconsidered; tabled April 29. It was taken from the table May 26; failed to pass, although it received a majority of the votes of the Senators present, the vote standing 16 to 15.

Representative Widoe introduced a bill popularly known as the "500-mile mileage bill." The following was the principal provision of the bill: "That 500-mile tickets, and one thousand mile tickets shall be kept for sale at the principal ticket offices of all railroad companies in this State or carrying on business partly within and partly without the limits of this State, at a price not exceeding ten dollars for said 500-mile books, and twenty dollars for the said 1,000-mile books in the lower peninsula, and twelve and fifty one-hundredths dollars for said 500-mile books and twenty-five dollars for said 1,000-mile books in the upper peninsula."

This bill passed the House by a vote of 79 to 7, and was transmitted May 18 to the Senate. In the Senate is was referred to the committee on railroads, and was never reported out.

Representative Donovan introduced a bill to provide for the issue and sale of an interchangeable and redeemable system of mileage books by all persons, companies or corporations operating steam railroads in the State of Michigan.

This bill was ordered printed for committee February 24, and was placed on the general order May 14; considered in committee of the whole May 17; passed and transmitted to the Senate May 18. The vote on this bill in the House was 57 yeas and 27 nays. The bill then went to the Senate, where it was referred to the committee on railroads May 18, and where it remained, as it was never reported out.

Representative Atkinson introduced a bill popularly known as the 2-cent-a-mile bill, reducing the fare on all railroads in the State to two cents a mile.

This bill contemplated an amendment of section 9 of article 2 of act No. 198 of the Public Acts of 1873, which would amend this section, under this heading "Every such corporation shall possess the general powers and be subject to the liabilities and restrictions following, that is to say," to read as follows:

"Ninth, To regulate the time and manner in which passengers and property shall be transported, and the tolls and compensation to be paid therefore; but such compensation for transporting any passenger and his or her ordinary baggage, not exceeding in weight one hundred and fifty pounds, shall not exceed the price of two cents per mile for any distance."

This bill was reported; printed for committee February 17; made special order for April 13 and afterward for April 28 and May 12. It was defeated May 12 by a vote of 49 to 41; reconsidered and tabled May 13.

Senator Barnard introduced a bill requiring railroad companies to furnish transportation to the office of the Commissioner of Railroads.

This bill was referred to the committee on railroads and reported adversely; tabled February 10; taken up and referred to the committee on State affairs February 16. This committee reported a substitute with following title: "A bill requiring railroad companies in the State of Michigan to transport over their lines the Commissioner of Railroads, his deputy, mechanical engineer, and other duly appointed persons while engaged in official business in discharge of the duties of such office."

This bill was referred to the committee on judiciary April 8, but

was never voted on because the committee never reported it out.

Representative Lusk introduced a bill to prohibit public officers from soliciting or accepting passes, favors or free transportation from any railroad company, street railroad company, steamboat or transportation company, or any other corporation engaged in carrying passengers.

This bill was referred to the committee on railroads, and tabled on

recommendation of that committee.

Representative Atkinson introduced a bill to prevent discrimination between passengers and shippers of freight on railroads in this State, and to provide a penalty therefor.

This bill was referred to the committee on railroads, printed for use of the committee February 18; made special order April 13; considered in committee of the whole, and finally tabled on April 14.

Senator Flood introduced a bill to regulate and prescribe the tolls and compensation which railroad companies and other corporations operating railroads in the State of Michigan may charge for transporting passengers and baggage.

This bill was tabled February 24. On April 22 the same was taken from the table and referred to the committee on railroads, but never

was reported out by the committee.

Representative Fuller introduced a bill to regulate rates of freight on iron ore on railroads in the State of Michigan.

This bill was tabled February 24.

Senator Holmes introduced a bill to regulate railway corporations and other common carriers in this State and to define the powers and duties of the Board of Railway Commissioners in relation to the same, and to prevent and punish extortion and unjust discrimination in the rates charged for the transportation of passengers and freights on railroads in this State, and to prescribe the mode of procedure and rules of evidence in relation thereto, and to repeal all laws in force in direct conflict with the provisions of the same.

This bill was referred to the committee on railroads; ordered printed for the committee March 4. It was never reported out by the railroad committee, and was therefore never acted upon by the Senate.

Representative Atkinson introduced a bill to provide a remedy for persons aggrieved by overcharging by railroad companies, and to provide a penalty for the violation of any provision of the special railroad charters in this State by railroad companies operating under such special charters.

This bill was referred to the committee on railroads; made special order for April 28, and finally tabled May 11.

Other bills looking to the same end were tabled on recommendation of the committee on railroads.

Representative Bricker introduced a bill for the regulation of freight rates in the State of Michigan, and for providing penalties for the violation of the same.

This bill was referred to the committee on railroads; was made special order for April 28 and May 11; placed on the general order May 25.

Senator Merriman introduced a bill February 9, to amend section 3 of article 3 of act 198, session laws of 1873, as amended by act 45, public acts of 1879, as amended by act 174, public acts of 1891, as amended by act 129, public acts of 1893, entitled "An act to revise the laws providing for the incorporation of railroad companies, and to regulate the running and management, and to fix the duties and liabilities of all said roads and other corporations owning or operating any railroads in this State," approved May 1, 1873, being compiler's section 3360, Howell's Annotated Statutes of Michigan.

This bill had reference to the taxation of railroads; its principal

provision being as follows:

Section 3. Every railroad company formed under the provisions of this act, or which now is or may hereafter be brought under the provisions of the general law of this State for the taxation of railway or railroad corporations, and every railroad company or other corporation, owning or operating any railroad situated in whole or in part in this State shall, on or before the first day of July in each year, pay to the State Treasurer on the statement of the Auditor General a specific tax upon the property and business of such railroad corporation operated within the State, which tax shall be computed in the following manner, viz.: Upon all such gross income not exceeding two thousand dollars per mile of road actually operated within this State; two and one-half per cent of such gross income; upon such gross income in excess of two thousand dollars and not exceeding four thousand dollars per mile, three and one-fourth per cent thereof; upon all such gross income in excess of four thousand dollars and not exceeding six thousand dollars per mile, four per cent thereof; and upon all such gross income in excess of six thousand dollars per mile, four and one-half per cent thereof."

The House amended the bill as follows:

1. By striking out of lines 1, 2, 3 and 4 of section 3 the words "formed under the provisions of this act or which now is or may hereafter be brought under the provisions of the general law of this

State for the taxation of railway or railroad corporations, and every railroad company or other corporation."

- 2. By striking out of line 13 of section 3 the words "three and one-fourth" and inserting in lieu thereof the word "four."
- 3. By striking out of line 15 of section 3 the word "four" and inserting in lieu thereof the word "six."
- 4. By striking out of lines 16 and 17 of section 3 the words "four and one-half" and inserting in lieu thereof the word "ten."

The Senate refused to concur in the amendments. The bill was then returned to the Senate by the House, which insisted on its amendments and asked for a committee of conference in regard to the difference existing between the House and Senate relative to the bill. Such committees were appointed, the members of the Senate committee being Senators Merriman, Preston, Maitland, Teeple and Youmans. The members of the House committee were Messrs. Chamberlain, Sawyer, Kelly, Fleischhauer and Washer. The report of the conference committee was adopted by the Senate and retransmitted May 20. It was adopted by the House and returned May 25. Referred by the Senate for enrollment May 26.

Representative Stoneman introduced a bill to provide for the local taxation of railroads. This was referred to the committee on railroads; printed for the use of the committee February 24; made special order for April 13; finally considered in committee of the whole May 11; taken from third reading and referred to the committee on judiciary May 12; reported; tabled May 28.

Representative Green introduced a bill to provide for the taxation and collection of taxes of persons, companies, associations and corporations whether located within or without this State, engaged in running palace, drawing-room, dining or sleeping cars, over or upon any railroad situated wholly or partly within this State.

This bill was referred to the committee on private corporations; reported and ordered printed March 9; finally reported and tabled May 28.

Representative McGill introduced a bill evidently having for its object to bring the railroads north of parallel 44 under the general tax law and subject to the same rate of taxation as the other railroads of the State.

(It will be remembered that railroads north of parallel 44 are now exempt from taxation "until they have operated for the full period of ten years unless the gross earnings shall exceed four thousand dollars per mile, etc.")

This bill was referred to the committee on general taxation; reported May 9, and finally tabled May 28.

Representative Stoneman introduced a bill to provide for the determination of the valuation, assessment and taxation of the property of telephone, telegraph, railroad, sleeping and parlor car and express companies and such other property as is not now valued, assessed and taxed under the provisions of the general laws of this State, and to provide for the collection of such tax in the locality in which said property is located, and to repeal all laws or parts of laws in conflict therewith.

This bill was referred to the committee on general taxation. Bill was tabled.

Representative Stoneman introduced a bill providing that the railroad companies should defray all the expenses of the Commissioner of Railroad's office, not exceeding twenty-five thousand dollars a year.

This bill was referred to the committee on railroads, and printed for that committee May 24; tabled on recommendation of same committee May 28.

Representative Stoneman introduced a bill providing for the payment of a license on railway sleeping cars, regulating fare charged and regulating the method of operating the berths of said sleeping cars.

This bill was reported and ordered printed March 9, and it was tabled May 28.

Representative Bemis introduced a bill to provide for a report and payment of a license fee by an issuance of a license to sleeping, drawing-room, parlor, palace and chair car companies doing business in this State.

This bill was referred to the committee on private corporations; reported general order May 18.

Senator Loomis introduced a bill having for its object to require railroads to carry bicycles free of charge.

This bill was referred to the Senate committee on railroads; printed for the committee, and never reported.

Representative Anderson introduced a bill in the House having for its object to require railroads to carry bicycles free of charge, which bill passed the House by a unanimous vote; was given immediate effect; transmitted to the Senate; passed the Senate; approved April 29.

Representative Eikhoff introduced a bill to regulate the carrying of passengers by all railway companies, corporations, co-partners or individuals.

This bill required railway companies to furnish seats for passengers, and made it a misdemeanor to collect fares unless seats were furnished. The bill was referred to the committee on railroads; printed for use of committee February 26; tabled May 28, on recommendation of committee.

Senator Bostwick introduced into the Senate a bill having a similar purpose to that of Mr. Eikhoff in the House, namely, to compel railroad companies to furnish seats to passengers.

This bill was referred to the committee on railroads, and was never reported out.

Senator Youmans introduced a bill to secure greater safety to passengers on steam railroads and electric railroads other than street railways.

This bill was referred to the committee on railroads; reported favorably, and passed; transmitted April 1st. In the House the bill was tabled May 28 on recommendation of the committee on railroads.

Senator Youmans also introduced a bill to secure greater safety to passengers getting on and off passenger cars on steam railroads and electric railroads other than street railways.

This bill was referred to the committee on railroads; printed for the committee March 4 but never reported.

Representative Foote introduced a bill to provide for public ingress and egress from railroad depots.

This bill was referred to the committee on railroads; printed for use of the committee February 18; considered in committee of the whole; motion to strike out all after the enacting clause lost; tabled May 11; motion to take the bill from table lost May 12; taken from table and placed on third reading May 19. Substitute not adopted and tabled May 28.

Representative Weier introduced a bill to provide for the protection of persons and property in highways at steam or electric railway crossings over public highways, regulating the use of such crossings by street railway, electric or steam railroad companies and providing for damage for persons or property injured thereat.

This bill was reported; printed March 2; tabled March 28.

Representative Sawyer introduced a bill to protect the lives and property of persons at the crossings of railroads and public highways within the State of Michigan.

The principal provision of this bill is as follows: "It shall be the duty of the Commissioner whenever applied to by petition signed by at least five freeholders of this State using any crossing and duly verified, setting forth that any railroad giving its location and situation, is dangerous to the traveling public; to proceed forthwith to investigate the same, and if he shall find the said petition to be true and the said railroad crossings be so situated as to be dangerous or likely to be injurious to the traveling public he shall forthwith order and require the railroad company whose duty it is to maintain any such crossing, forthwith to erect at any such railroad crossing an automatic bell signal " " within thirty days from the service of the same upon such railroad company."

This bill passed the House April 15, the vote being yeas 65, nays 2. It was then transmitted to the Senate where it was referred to the committee on railroads April 16; reported favorably April 29; finally passed and returned April 30. The vote on the bill in the Senate was yeas 21, nays 0.

Representative Peek introduced a bill to prescribe the liability of railroad corporations owning or operating a railroad in this State, for damages sustained by its agents or servants by reason of the negligence of any other agent or servant thereof, when such damage is sustained within this State:

The bill read as follows:

"Section 1. The People of the State of Michigan enact, That every railroad corporation owning or operating a railroad in the State shall be liable for all damages sustained by any agent or servant thereof, by reason of the negligence of any other agent or servant thereof, without contributory negligence on his part when sustained within the State, and no contract, rule or regulation between such corporation and any other agent or servant shall impair or diminish such liability."

This bill was referred to the committee on railroads; one thousand extra copies printed for the committee February 17; tabled on recommendation of the committee May 28.

Representative Weier introduced a bill to define the rights of employés of railroad corporations (including street railway corporations), and to determine the liability of such corporations to its employés for injuries resulting from the negligence of employés of such corporations. The provisions were as follows:

"Section 1. The People of the State of Michigan enact, That every employé of a railroad or street railway corporation shall have the same rights and remedies for an injury suffered by him or her from the act or omission of the corporation, or its employés, as are allowed by law to other persons not employés, where the injury results from the negligence of a superior agent or officer, or of a person having the right to control or direct the services of the party injured, and also when the injury results from the negligence of a fellow servant engaged in another department of labor from that of the party injured, or of a fellow-servant on another train of cars, or one engaged about a different piece of work. Knowledge by an employé injured of the defective or unsafe condition or character of any machinery, ways or appliances, shall not be a defense to an action for injury caused thereby, except as to conductors or engineers in charge of dangerous or unsafe cars or engines or motors operated by them.

"Section 2. A motorman on an electric car shall be deemed an engineer in the meaning of this act. A motor car, with or without trailers, shall likewise be deemed a train.

"Section 3. Where death ensues to an employé the legal or personal representatives of the person injured shall have the same rights and remedies as are allowed by law to such representatives of other persons.

"Section 4. Any contract or agreement, express or implied, made by an employé to waive any benefits conferred by this section, shall be null and void; and all existing contracts of like nature shall be terminated and deemed and held inoperative hereafter.

"Section 5. This act shall not deprive an employé of any corporation, or his legal or personal representatives, of any right or remedy that he now has by law.

"Section 6. This act shall take immediate effect."

This bill was referred to the committee on railroads and labor January 13; reported; printed for committee March 9.

Representative Neidermeier introduced a bill to provide for the construction and maintenance of stock or cattle guards at public highway crossings by steam railroad companies, and providing damage for injury to live stock on account of the want thereof.

Referred to the committee on railroads; reported; one thousand extra copies printed for the committee; made special order for April 28 and May 11; placed on the general order May 25. Legislature adjourned without action.

Representative Kelly introduced a bill to prohibit the use of snow flanges upon locomotives in this State, and to provide a penalty therefor.

This bill was referred to the committee on railroads; printed for use of the committee, and tabled May 28 on the recommendation of committee.

Senator Hughes introduced a bill to require railroad companies to weigh grain and grain products upon the request of shippers, and give certificates of the same.

This bill was referred to the committee on railroads; tabled; taken from table and referred to committee on State affairs March 17. Reported substitute, same title, April 21; considered in committee and finally passed and transmitted April 28; was taken up on special order May 25, but never was enacted into law.

Senator Covell introduced a bill entitled "An act to provide for the appointment of a Commissioner of Railroads and to define his powers, duties and fix his compensation, etc.," which bill passed the Senate March 16; transmitted to the House where, on May 11, it was considered in committee of the whole. All after the title and enacting clause was stricken out, and the title was tabled.

Senator Holmes introduced a bill to establish a Board of Railroad Commissioners, prescribe their qualifications, fix their salaries, and for the appointment of a secretary for such board and to fix his salary."

On March 4 this bill was referred to the committee on railroads and ordered printed for said committee, but never reported out.

Representative Foote introduced a bill to amend that portion of the act for incorporating and regulating railroad companies, that refers to the crossing board and its duties.

This bill was referred to the committee on railroads. Placed on general order April 28; on for third reading and passed May 17. Referred to Senate committee on railroads May 18; reported favorably May 19; considered in committee of the whole and ordered to third reading May 24; passed and returned to House May 24. Reported enrolled May 25.

Senator Mudge introduced a bill entitled "An act to prohibit railroad companies from taking up their tracks and abandoning their stations and failing to operate their road in certain cases."

This bill was referred to the committee on railroads; printed for use of the committee March 4, but was never reported.

Senator Mudge introduced a similar bill February 19; it was referred to the committee on railroads, and never reported.

Representative Dudley introduced a bill to authorize railroad companies and street railway companies now organized, or that may hereafter be organized under the laws of the State, to lease the property and franchises of each other.

This bill was referred to the committee on railroads May 6; placed on the general order May 6; made special order May 11; placed on the general order May 17 and 18; not passed; reconsidered; tabled May 19; taken up and recommitted to the general order May 20; considered in the committee of the whole and recommitted to the committee on railroads May 24; reported; tabled May 28.

Representative Atkinson introduced a bill requiring all railroad corporations to hold at least one annual stockholders meeting and making regulations concerning it.

This bill passed the House May 12, and was transmitted to the Senate the same day. It was referred to the committee on railroads in the Senate May 14; reported favorably May 19; considered in the committee of the

whole and ordered to third reading May 24; passed, and returned May 24; referred for enrollment May 25.

Representative Atkinson introduced a bill to permit foreign railroad companies to hold and own certain lands in this State, to confirm conveyances of such lands to other foreign railroad companies on certain conditions, and to authorize the recording of a copy of agreements by which such conveyances have been or may be hereafter made.

This bill was referred to the committee on railroads January 27; reported, printed for committee February 17; special order for April 14, April 28 and May 11; considered in committee of the whole; passed, transmitted May 20. In the Senate referred to the committee on railroads May 20; reported favorably May 21; considered in committee of the whole; ordered to third reading May 25; passed May 26; finally enrolled May 27; approved May 31.

Representative Stewart introduced a bill to amend section 9 of an act entitled "An act to revise the laws providing for the incorporation of railroad companies and to regulate the running and management and to fix the duties and liabilities for all railroad and other corporations owning or operating any railroad in this State."

This bill was ordered printed for the committee February 24; tabled on recommendation of the committee on railroads May 28.

A FINAL DECISION OF THE SUPREME COURT OF THE STATE CON-CERNING THE VALIDITY OF ONE OF THE SPECIAL CHARTERS GRANTED RAILROADS.

After many years of agitation by the people, the press and certain members of the legislature, a chapter of much value in determining the relation of the specially chartered roads of the State to the general railroad law thereof, has been closed by the supreme court. On account of its far-reaching influence upon the future policy of the State, and as well upon sundry laws upon the statute books not now enforced against these specially chartered companies, and in order to make the opinion easy of access to the persons receiving this report, the same is herewith printed in full.

At the time of the institution of this suit in the lower court, a majority of the railroads in the State, until the adoption of the one-thousand mile books recently issued under the rules of the Central Passenger Association, obeyed the provisions of act No. 90, public acts of 1891, requiring them to furnish one-thousand mile books for twenty dollars, good for use by the purchaser, his wife and children. The companies acting under special charters, notably the Michigan Central and the Lake Shore & Michigan Southern Railroads, refused to comply therewith. An action was instituted against the last named company in the circuit court for the county of Lenawee, where in due course of time the company was defeated. It took an appeal from the lower court to the supreme court of the State, which also rendered its decision against it. An appeal to the supreme court of the United States is now being perfected by the company.

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M. C. R. R., BATTLE CREEK

EFFECT OF THE DECISION UPON THE AMOUNT OF TAX TO BE PAID BY THE COMPANY.

The Lake Shore & Michigan Southern Railway Company has heretofore been taxed under the provisions of section 31 of its special charter, said tax being computed upon its "capital and debt being upon such portion of the whole of its capital and loans as is actually employed in the State of Michigan." The amount of this tax has not varied for a number of years, a fixed amount being paid annually in the sum of \$46,743.60. Computed under the general law as it now exists upon the statute books. upon the earnings of the company as reported for the year 1896, the tax would amount to \$47,845.82, a net gain to the State of \$1,102.22.

SMITH v. LAKE SHORE & M. S. RY. CO.

(Supreme Court of Michigan. Oct. 1, 1897.)

RAILROADS—LEGISLATIVE CONTROL—CONSOLIDATION OF COMPANIES—MAXIMUM RATES-MILEAGE BOOKS-TIME LIMIT.

1. Pub. Acts 1891, No. 90, requiring railroad companies in the state to keep for sale 1,000-mile tickets, at certain specified rates, to be issued in the name of the purchaser, his wife and children, and valid for two years, was intended to apply only to the transportation of passengers within the state, and is therefore not invalid, as

being a regulation of interstate commerce.

2. Where a railroad company existing under a special charter was consolidated with a company existing under the laws of another state, by virtue of Pub. Acts 1855, No. 82, §§ 50, 52, providing for such consolidation "into a single corporation," which "new corporation" shall possess all the powers, rights, and franchises conferred on such corporations, respectively, and shall be subject to all the restrictions and restorm all the duties imposed by their respective charters or law of organizaand perform all the duties imposed by their respective charters or law of organization, not inconsistent with the provisions of such act, and that on the election of the first board of directors of the "corporation created by said agreement," all the rights, franchises, and property of each thereof shall be deemed to be transferred to and vested in such "new corporation" without any other deed or transfer, and such "new corporation" shall hold and enjoy the same, such consolidated entity was hereby constituted a new corporation, created under a general law, which, under Const. art. 15, § 1, "may be amended, altered, or repealed."

3. Under Const. art. 19a, § 1, empowering the legislature to pass laws, from time to time, establishing reasonable maximum rates and charges for the transportation of passengers on railroads, the legislature was authorized, in addition to establishing a maximum rate for a single fare, to establish the rate at which mileage books shall be furnished, as the term "maximum rate," in such constitutional provision, means the maximum rate which the company is to be permitted to charge under a given

set of circumstances.

4. It is competent for the legislature, under a constitutional provision reserving to it the power to amend, alter, or repeal the laws relating to the incorporation of railroad companies, to provide that a ticket issued to a passenger shall be valid for a definite, reasonable time.

Grant and Hooker, JJ., dissenting.

Certiorari to circuit court, Lenawee county; Victor H. Lane, Judge. Petition by Henry C. Smith, as relator, for a writ of mandamus to the Lake Shore & Michigan Southern Railway Company, to compel the issue of a mileage book in the name of himself and wife. From an order awarding the writ, respondent brings certiorari. Affirmed.

Fred A. Maynard, Atty. Gen. (Watts, Bean & Smith, of counsel), for relator. Ashley Pond, A. C. Angell, and C. E. Weaver (George C. Greene, of counsel), for respondent.

Montgomery, J. The relator applied to the respondent company for a 1,000-mile mileage book, to be issued in the name of himself and wife, and was refused. He thereupon brought this proceeding in the circuit court, to compel the respondent to issue such a ticket. The circuit judge granted an order that a ticket good upon the lines of the respondent in this State be issued, and this order is the one now under review. The action is based upon the amendment to section 9 of the railroad law, adopted and embodied in act No. 90 of the public acts of 1891, which contains the following provision: "One thousand mile tickets shall be kept for sale at the principal ticket offices of all railroad companies in this State, or carrying on business partly within and partly without the limits of this State, at a price not exceeding twenty dollars in the lower peninsula and twenty-five dollars in the upper peninsula. Such one thousand mile tickets may be made non-transferrable, but, whenever required by the purchaser, they shall be issued in the name of the purchaser, his wife and children, designating the name of each on each Each one thousand mile ticket shall be valid for two years only, after date of purchase." In the same section of the statute it is provided that the rates of fare shall not exceed 2 cents a mile for carriage of passengers by railroads whose gross earnings are more than \$3,000 per mile, 21 for roads whose gross earnings are more than \$2,000 and less than \$3,000, and for companies whose earnings are less than \$2,000 per mile 3 cents per mile, except in the upper peninsula, where a higher rate is permitted. It is contended that there was error in the ruling below, and various grounds are alleged. First, it is contended that the statute is an attempt on the part of the legislature to provided for the sale of mileage which shall be good outside of the State, and that, as this affects interstate commerce, it is unconstitutional; second, that the charter of the Michigan Southern Railway Company, passed in 1846, which provided that "it shall and may be lawful for said company from time to time to fix, regulate and receive the dues and charges taken for transportation of property and persons on said * * * Provided, Said company shall charge railroad as aforesaid: no greater sum or tolls for the transportation of persons and property than were charged or authorized by the State of Michigan to be taken by the Southern Railroad on the first day of January last,"-is still in force, and, as it was granted prior to the amendment of the constitution reserving the right to alter or amend charters of corporations organized under the laws of the State, that the legislation in question impairs the obligation of contracts, within the doctrine of the Dartmouth College Case, 4 Wheat. 518, and is, for this reason, invalid; third, that, independently of this provision, the act is unconstitutional, for the reason that it is an attempt to compel railroad companies to enter into contracts to be performed in the future, at any time within two years, and is an invasion of the right to the use of property; and in the same connection it is contended that this is in violation of the fourteenth amendment of the constitution of the United States, which provides that no person shall be deprived of property without due process of law; fourth, it is contended that the amendment to the constitution (article 19a, § 1) is a limitation upon the power of the legislature to legislate as to rates and charges of transportation, and limits the right in that regard to the fixing of maximum rates, and that the provision for the issuing of a mileage book is not a fixing of maximum rates of charge, but is a further regulation.

- 1. The first contention cannot be allowed, for the reason that the statute, fairly construed, was intended to limit the use of the mileage ticket to the state of Michigan. It fixes the price of the ticket,—not exceeding \$20 in the Lower Peninsula, and \$25 in the Upper Peninsula. While the language is not very apt, we think it was the clear intention that a ticket, the price of which should be \$20 for 1,000 miles of transportation, would be one entitling the purchaser to carriage in the Lower Peninsula of Michigan, and one at \$25 to carriage in the Upper Peninsula, and that it was not the intention by this reference to locality to fix the place where the tickets should be placed on sale. Thus construed, the statute cannot be held to be a regulation of interstate commerce.
- The answer of respondent sets out that in 1846 a special charter, containing the provisions above quoted, was granted to the Michigan Southern Railroad Company: that subsequently the Michigan Southern Railroad Company, under an act of the legislature of the State of Michigan, became consolidated with a corporation of the state of Indiana, known as the Northern Indiana Railroad Company, thereby forming the Michigan Southern & Northern Indiana Railroad Company, which company then succeeded to all the rights, franchises, property, and powers of the Michigan Southern Railroad Company; and that the Michigan Southern & Northern Indiana Railroad Company afterwards, under due legislative authority in that behalf, entered into consolidation with certain other railroad companies, organized under the laws of Indiana, Ohio, Pennsylvania, and New York, respectively, and thereby formed the said respondent, the Lake Shore & Michigan Southern Railway Company; and that this respondent thereby acquired all the rights, franchises, powers, and property of the Michigan Southern Railroad Company and the Michigan Southern & Northern Indiana Railroad Company, and holds and is entitled to all the rights, franchises, powers, and privileges granted in and by the charter aforesaid, and by the acts of the legislature of the said state. The last consolidation set up was under act No. 82 of the laws of 1855, entitled "An act to provide for the incorporation of railroad companies." Section 50 provides that "any railroad company in this state, forming a continuous or connected line with any other railroad company, may consolidate with such other company, either in or out of this state, into a single corporation. * * * Such new corporation shall possess all the powers, rights and franchises conferred upon such two or more corporations, and shall be subject to all the restrictions and perform all the duties imposed by the provisions of their respective charters or laws of organization, not inconsistent with the provisions of this act." By section 52 it is provided that, "upon the election of the first board of directors of the corporation created by said agreement, all and singular the rights and franchises of each and all of said two or more corporations, parties to such agreement, all and singular their rights and interests in

and to every species of property and things in action, shall be determined to be transferred to, and vested in such new corporation, without any other deed or transfer; and such new corporation shall hold and enjoy the same, together with all the right of way and other property, in the same manner, and to the same intent as if the said two or more corporations, parties to such agreement, should have continued to retain the title and transact the business of such corporations." It is contended by the defendant that, under this statute, where a consolidation takes place of a corporation organized and existing under a special charter, as did the respondent company, with a corporation or corporations existing under the laws of another state, the effect is not to annihilate the previously existing Michigan corporation, but that upon the consolidation the original corporation brings to the new entity the powers and privileges already possessed, and that the consolidated company simply exercises in each jurisdiction the powers the corporation there chartered had possessed, and succeeds there to its privileges. The learned counsel for respondent cites, as sustaining this view, State Treasurer v. Auditor General, 46 Mich. 224, 9 N. W. 258; Chicago & N. W. Ry. Co. v. Auditor General, 53 Mich. 79, 18 N. W. 586; Nashua & L. R. Co. v. Boston & L. R. Co., 136 U. S. 356, 10 Sup. Ct. 1071; People v. New York, C. & St. L. Ry. Co., 129 N. Y. 474, 29 N. E. 959.

Passing the consideration of these cases for the time, and having reference to the terms of the act under which the consolidation took place, it is to be observed that this act constituted the consolidated entity a "new corporation," if we regard the terms employed in the statute, in section 50, above quoted, which limits the rights and franchises derived from the old corporation, and to be exercised by the new, to such as are not inconsistent with the provisions of the act; and in section 52, relied upon by respondent, as well, the new creation is referred to as "such new corporation." It is also a corporation created under a general law. time of its creation, section 1 of article 15 of the constitution provided that corporations might be formed under general laws, and that "all laws passed pursuant to this section of the constitution may be amended, altered or repealed." It was said in Muller v. Dows, 94 U.S. 444, of such a corporation, so formed: "The two companies became one, but in the state of Iowa that one was an Iowa corporation, existing under the laws of that state alone." In State Treasurer v. Auditor General, 46 Mich. 224, 9 N. W. 258, and Chicago & N. W. Ry. Co. v. Auditor General, 53 Mich. 79, 18 N. W. 586, the question was as to what portion of the earnings of the consolidated company was subject to taxation in this state. In State Treasurer v. Auditor General it was held that the Lake Shore & Michigan Southern Railway was not a corporation formed under the general railroad law, within the meaning of the clause of the statute providing for taxing railroad companies so formed. In Chicago & N. W. Ry. Co. v. Auditor General the same doctrine was held. It was said in the latter case: "We appreciate very fully the difficulty of determining under all circumstances in what light we are to regard the anomalous organizations which are formed by the consolidation of two or more corporations which have received their corporate powers from different sovereignties." The case of Peik v. Railway Co., 94 U. S. 164, was cited with approval. In that case it was held that the state in which the road

lay may legislate for the consolidated company in that state precisely as before the consolidation. Neither of the two Michigan decisions determined what legislative control the legislature of the state has over that portion of the road which lies within the state, or as to the conduct of business within the state. And this may also be said of People v. New York, C. & St. L. Ry. Co., 129 N. Y. 474, 29 N. E. 959,

The companies at present forming the respondent derived rights under the law permitting a consolidation, and, while there may be difficulty in subjecting so much of the property of the consolidated company as lies without the state to our jurisdiction, or in controlling the transactions of the corporation itself without the state, or in fixing taxation upon a basis which rests upon its earnings outside the state, it is not apparent why the company, as to its exercise of corporate functions within the state, is not subject to the terms of the act authorizing its consolidation, as limited by the constitutional provision in force at the time, or why it is not subject to local legislation. Counsel also cite the cases of Tomlinson v. Branch, 15 Wall. 460, and Central Railroad & Banking Co. v. Georgia, 92 U.S. 665. In the former case the act provided that, upon the written consent of all the stockholders of the South Carolina Canal & Railroad Company, the said South Carolina Canal & Railroad Company shall be merged in the said South Carolina Railroad Company. It was held that the South Carolina Railroad Company retained the rights which it had before the merger. The case of Central Railroad & Banking Co. v. Georgia was to the same effect. There the Macon & Western Railroad Company was merged under the name and charter of the said the Central Railroad & Banking Company of Georgia. But in Railroad Co. v. Georgia, 98 U. S. 359, it was held that, where a consolidation took place, the effect was the creation of a new corporation out of the stockholders of the two previously existing corporations. It was said: solidation provided for was clearly not a merger of one into the other, as was the case of Central Railroad & Banking Co. v. Georgia, 92 U. S. The question was raised in a case where this same defendant was a party in interest, in Shields v. State, 26 Ohio St. 86. In that case the court say: "Among the companies forming this consolidation were two Ohio companies, chartered and organized before the adoption of the present constitution, and whose charters were therefore not subject to the provision of the present constitution which gives to the legislature the power of alteration, amendment, and repeal of charters. consolidation took place in 1869, and was effected in all respects in pursuance of the act of April 10, 1856; and the claim is that a consolidation under that act is to be regarded in law as a surrender or relinquishment of the several individual charters of the companies so uniting, and the acceptance of a charter de novo from the state." The court held that the consolidation constituted a new corporation, and the fact that it was formed out of old defunct corporations did not make it any the less a corporation created by the legislature. It was said: "It is not the material out of which it is formed, but the plastic hand that formed it, that we look to for its character and status under the constitution." This case was affirmed on appeal by the federal supreme court in 95 U.S. 319. question was again before the federal court in St. Louis & S. F. Rv. Co. v. Gill, 156 U.S. 649, 15 Sup. Ct. 484. In that case there was a consolidation of two railroads, operating in Missouri and Arkansas. It was claimed that, notwithstanding this legislation, the railroad company, so far as related to its business in Arkansas, was entitled to fix its rate of charges in accordance with the law of its original corporation. The court said: "It has been frequently decided by this court that a special statutory exemption or privilege, such as immunity from taxation or a right to fix and determine rates of fare, does not accompany the property in its transfer to a purchaser, in the absence of express direction to that effect in the statute;" thus treating the consolidation as a purchase by

the new entity.

Passing by the third contention, and considering first the effect of article 19a, § 1, of the constitution, this section reads as follows: "The legislature may, from time to time, pass laws establishing reasonable maximum rates and charges for the transportation of passengers and freight on different railroads in this state," etc. The contention is that this section is a limitation upon the authority of the legislature, and that, as to the fixing of rates, the power is exhausted when maximum rates are established, and that the act in question is not a fixing of maximum rates within the constitutional provision. In the opinion of Mr. Justice Cahill in Wellman v. Railway Co., 83 Mich., at page 624, 47 N. W., at page 499, it is said: "Nor do I think that the constitutional amendment of 1870, before cited, which expressly provides that 'the legislature may, from time to time, pass laws establishing reasonable maximum rates of charges for the transportation of passengers and freight on different railroads in this state,' is no more than declaratory of a power that al-* * * The amendment of 1870 was neither a grant ready existed. nor a limitation of power. It was a declaration of power already reserved in the constitution, and the amendment served only to put beyond question the right of the legislature, which was before thought to be open to debate." The maxim, "Expressio unius est exclusio alterius," is not wholly inapplicable in the interpretation of constitutional provisions. See End. Interp. St. § 533; Cooley, Const. Lim. pp. 78, 79. Speaking of this rule as applied to the construction of constitutional provisions, Mr. Justice Green, speaking for the court in Williams v. Mayor, etc., 2 Mich. 563, said: "That certain legal maxims or rules of construction, which have been found generally applicable, afford important aid in arriving at the intention of those who framed the law, every lawver will admit; but that there are some instruments or laws to which such maxims cannot be strictly applied, without doing manifest violence to the plain intent of the framers of the law, is also a matter of common experience. This is especially true in the construction of state constitutions, as will appear manifest when we consider their character and objects." See, also, Com. v. Hartman, 17 Pa. St. 118; People v. Wright, 6 Colo. 92; In re Thirty-Fourth St. R. Co., 102 N. Y. 343, 7 N. E. The constitution of New York placed certain restrictions upon street-railway companies. The legislature, by a general act, embodied the constitutional conditions, and annexed a third or additional condition not enjoined by the constitution. The contention was made that the constitution had prescribed the conditions upon which street railroads might be constructed, and, by implication, thereby enjoined the imposition by the legislature of conditions other than those prescribed

therein. The court of appeals of New York said: "But the constitution neither by express language nor by implication abridges the legislative power over the subject outside of the matters particularly enumerated. It needs no citation of authorities to sustain the postulate that, except as restrained by the constitution, the legislative power is untrammeled and supreme, and that a constitutional provision which withdraws from the cognizance of the legislature a particular subject, or which qualifies or regulates the exercise of legislative power in respect to a particular incident of that subject, leaves all other matters and incidents under its control. Nothing is subtracted from the sum of legislative power except that which is expressly or by necessary implication withdrawn. The legislature is prohibited from granting a franchise to construct a street railroad, except upon certain specified conditions. But it is not prohibited from annexing further conditions not inconsistent therewith, and whether other conditions are necessary or proper is a matter resting in the wisdom and discretion of the legislature." 102 N. Y. 343, 7 N. E. 176.

It is said that the statute having fixed the maximum rate of 3 cents as to certain roads earning less than \$2,000 per mile, and 21 cents and 2 cents, respectively, for roads earning more than \$2,000 per mile, this exhausts the power of the legislature, and that no power exists to provide for a less rate where mileage books are used. In my judgment, the term "maximum rate," as used in this constitutional provision, means the maximum rate which the company is to be permitted to charge under a given set of circumstances. Under the terms of this act, the company not furnishing mileage books may be compelled to furnish them at the rate of 21 or 2 cents a mile, respectively, or it may charge for the single fare 3 cents. By this same act all roads are entitled to charge 3 cents per mile for a distance not exceeding five miles. It might be said with as much force as the proposition under discussion can be urged that by this provision the legislature has fixed the maximum rate at 3 cents, and thereby exhausted its power. The answer is obvious, viz., that, in fixing the rate at 3 cents for a distance less than five miles (in the Lower Peninsula), the legislature fixed the maximum rate for that service to be paid the road by one making just that contract. If this answer is not valid, the court and counsel in the Wellman Case overlooked wholly a controlling question which would have ruled the case the other way from that in which it was decided. In the case of Interstate Commerce Commission v. Baltimore & O. R. Co., 145 U. S. 263, 12 Sup. Ct. 844, section 2 of the interstate commerce act was under consideration. section provides "that if any common carrier subject to the provisions of this act shall, directly or indirectly, by any special rate, rebate, drawback or other device, charge, demand, collect, or receive from any person or persons a greater or less compensation for any service rendered, or to be rendered, in the transportation of passengers or property, subject to the provisions of this act, than it charges, demands, collects or receives from any other person or persons for doing for him or them a like and contemporaneous service in the transportation of a like kind of traffic under substantially similar circumstances and conditions, such common carrier shall be deemed guilty of unjust discrimination, which is hereby prohibited and declared to be unlawful." The language of Judge Jackson, of the circuit, was approved, as follows: "To come within the inhibition of said sections, the differences must be made under like conditions; that is, there must be contemporaneous service in the transportation of like kinds of traffic under substantially the same circumstances and conditions. In respect to passenger traffic, the positions of the respective persons or classes between whom differences in charges are made must be compared with each other, and there must be found to exist substantial identity of situation and of service, accompanied by irregularity and partiality resulting in undue advantage to one, or undue disadvantage to the other, in order to constitute unjust discrimination."

4. It is difficult to define the precise limit of power reserved to the legislature under a provision embodied in the fundamental law, or incorporated in the charter of a corporation, reserving the right to the legislature to alter, amend, or repeal. The question has been before this court in numerous cases, the latest being the case of Attorney General v. Looker (Mich.) 69 N. W. 929, where the authorities are collated. In the case of Detroit v. Detroit & H. Plank-Road Co., 43 Mich. 140, 5 N. W. 275, Mr. Justice Cooley, speaking of the provision of the constitution of the United States which forbids the impairing of obligations of contracts, says that, but for this provision, "the power to amend and repeal corporate charters would be ample without being expressly reserved. The reservation of the right leaves the state where any sovereignty would be if unrestrained by express constitutional limitations, and with the powers which it would then possess. It might therefore do what it would be admissible for any constitutional government to do when not thus restrained, but it could not do what would be inconsistent with constitutional principles. And it cannot be necessary at this day to enter upon a discussion in denial of the right of the government to take from either individuals or corporations any property which they may rightfully have acquired." We think this is a fair statement of the effect of this reservation, and that, if the legislation in question can be construed as depriving the respondent of its property, it is invalid, as conflicting with other constitutional provisions. But we do not think that such is the effect of this legislation. It cannot be said that the right to use property dedicated to a public use in precisely the manner which the owner may choose to use it is a vested right of property. This question has been put at rest by a long line of decisions, beginning with Munn v. People, 69 Ill. 80, and including Wellman v. Railway Co., 83 Mich. 592, 47 N. W. 489.

The chief contention is that because this statute requires the company to enter into contracts for future transportation of passengers, covering a period of two years, it is therefore withdrawing from the company the right to manage its own property, and is, for this reason, invalid. It may be said that every attempt to fix rates of toll or rates for the carriage of passengers or transportation of property to some extent involves an interference with the management and control of its property by the railroad company. Having in mind the common method of conducting railroad business at the present day, the court can take judicial notice of the fact that nearly every railroad in this state does issue, and did, prior to the enactment of this law, issue, mileage books or 1,000-mile tickets. The conditions were not precisely the same, but they were con-

tracts good for one year, and issued at a reduced rate; so that, in the usual conduct of business, time contracts for the transportation of passengers are made. In fact, it would be difficult to conceive of a method of conducting a railroad business which did not involve a contract good for some length of time.

In the brief of the learned counsel for the respondent we are cited to a large number of cases in which it has been held that it is competent for railway companies to make regulations limiting the time within which a ticket may be used, and this is undoubtedly true in the absence of legislation; but we think it cannot be successfully contended that it would not be competent for the legislature to provide that a ticket furnished to a passenger should be good for a definite reasonable time, and, when such legislation was adopted, it would of necessity deprive the company of the power to make rules inconsistent therewith. I confess I cannot share the apprehension that such a regulation as the one here involved will deprive the company of the management of its business. Would any one contend that the legislature has not the power to require railroad companies to keep on sale at their stations tickets of any kind? The compulsory requirement of this act may, indeed, be denounced as an attempt to conduct the business of the company, but I apprehend that extended argument is not necessary to defend the right of the legislature to make such requirement. In Elliott on railroads (section 1598) it is said that "in some of the states it is provided by statute that tickets shall be good for a certain number of years, notwithstanding any limitation thereon." I am not aware that these statutes have been attacked. If such enactment be within the power of the legislature, where is the line to be drawn short of that fixed by the federal supreme court, which is that legislation of this character must not be so unreasonable as to deprive the company of the use of its property? The only case to which our attention has been called in which the subject of legislation requiring the sale of mileage books has been under consideration is that of Attorney General v. Old Colony R. Co., 160 Mass. 62, 35 N. E. 252. legislation there under discussion provided for an interchangeable mileage book, good on all the roads of the state. The court divided, a majority of the court holding such legislation to be unconstitutional, in that it required one company to do business upon the credit of another. majority of the court distinctly limit the decision to that ground, and apparently did not find a regulation requiring the issue of mileage books to be unreasonable. Mr. Justice Knowlton, with whom Mr. Justice Holmes concurred, reached the opposite conclusion, and of necessity affirmed the power of the legislature to provide for the issuing of mileage

My conclusions are that the regulation is not unconstitutional as applied to roads within the control of the legislature, and that the respondent road, by its consolidation—formed, as it is, by a consolidation under an act passed since the enactment of the constitution reserving the power to alter, amend, or repeal,—is subject to the general control of the legislature, and that the judgment of the circuit court should be affirmed.

Long, C. J., and Moore, J., concurred with Montgomery, J.

Grant, J. (dissenting). By act No. 90, Pub. Acts 1891, the railroad law was amended, fixing the maximum rate for the transportation of passen-

gers at from two to three cents per mile according to the gross earnings of the passenger trains of the various roads. The same act requires all railroad companies in this state, or carrying on business partly within and partly without the state, to keep for sale, at their principal ticket offices, 1,000-mile tickets, to be issued in the name of the purchaser, his wife and children, and to be valid for two years, at the rate of \$20 in the Lower, and \$25 in the Upper, Peninsula. The relator tendered the respondent defendant, \$20, and demanded a 1,000-mile ticket, to be issued in the name of himself and his wife. The respondent refused to accept the money and issue the ticket, whereupon the relator filed a petition in the circuit court for the county of Lenawee, praying for the writ of mandamus to compel the issuance of the ticket. The court below granted

the order, and the respondent appealed.

The constitution (article 19a, § 1) provides that "the legislature may, from time to time, pass laws establishing reasonable maximum rates of charges for the transportation of passengers and freight on different railroads in this state," etc. One of the railroads doing business in this state contested in the courts the validity of the above provision, fixing maximum rates. That provision of the law was held valid. Wellman v. Railway Co., 83 Mich. 593, 47 N. W. 489. That decision held that the reasonableness of the rate was for the sole determination of the legislature, and not for the courts. The case was affirmed in the supreme court of the United States, that court, however, holding that the reasonableness of the maximum rate was for the determination of the courts, and not exclusively in the legislature, and that, whenever that rate was so low as to deprive the railroad companies of a reasonable income from their legitimate investments, the result was to deprive them of their property, or, what is the same thing, the use of it, without due process of law, and therefore void, under the constitution of the United States. Railway Co. v. Wellman, 143 U. S. 339, 12 Sup. Ct. 400. It is now the established rule that the question is a judicial one, and that, while the courts cannot establish the charges, they will inquire into their reasonableness, and determine whether the rates are such as to deprive the corporation of its property without due process of law. Railway Co. v. Gill, 156 U. S. 657, 15 Sup. Ct. 484, and authorities there cited. But the above decisions and many others upon the same subject which are cited in the briefs of counsel do not, in my judgment, bear upon the question now raised. All those cases involve the validity of maximum rates fixed by the legislatures under the implied or express power of the state constitutions. The difficulty which for a long time confronted the courts was not in determining whether the power to fix a reasonable maximum rate existed, but what was the limitation of the power. As late as 1893. the supreme court of Massachusetts, in Attonery General v. Old Colony R. R., 160 Mass. 89, 35 N. E. 252, recognized the existence of the power, but said: "It is not yet settled, however, what the limitations of this power are,—whether it is limited to such rates as a court may deem reasonable, or only to such rates as shall not operate to deprive the railroad companies of their property without reasonable compensation or without due process of law." That question was settled in Railway Co. y. Gill, supra, decided the following year. We are cited to no case, nor

have I been able to find any, which involves a legislative enactment like the one now presented for our determination.

Several defenses are interposed, but I deem it important to refer to but one, which I think is conclusive against the relator, viz.: Does the legislature possess the power, under the constitution of this state, to enact this provision, requiring railroad companies to fix charges below the maximum rates, and compel them to enter into contracts for two years or for any number of years which the legislature may see fit to prescribe? The learned counsel for the relator contend that the power is inherent in the legislature to "regulate, control, and fix the conditions of all contracts between railroad companies and their patrons." They further "It is merely a regulation of the public business, which the legislature has a right to regulate. Its apparent object is to promote the convenience of persons having occasion to travel on the road, and to reduce for them the cost of transportation. Its benefit to the public, who are compelled to patronize railroads, is unquestioned. It brings the reduction of rates of two cents per mile within the reach of all persons who may have occasion to make only infrequent trips." No authority is cited which sustains so unlimited a power. If it be sustained, these companies have no control over their affairs and business except to carry out such contracts for common carriage as the legislature may see fit to prescribe. If the legislature may compel these companies to carry married men, their wives and children, at reduced rates, it may also include their servants and employés upon the same ticket, and also the transportation of their goods at reduced rates. It may require the issuance of these tickets to clubs of two or any greater number. It may fix excursion rates at still lower figures, and prescribe the time for which they may be valid. It may make such contracts valid for any number of years. And, under the relator's contention, the courts must determine in each case whether the requirements are reasonable. Certainly, citizens who have invested their money in these corporations are entitled to some control over their business and affairs. It is difficult to understand what control is left to them if this law be sustained. Under the opinion of the learned circuit judge who heard the case, he should have denied the writ. is against the judgment rendered. He used the following language: "Upon the other question I care only to remark that this particular provision of the statute, the aid of which is invoked in this case, if constitutional, would seem almost to extend the police power of this state to the practical management of the business of the railway companies, and leave no line beyond which it could be said that the state cannot assume to control what are practically the private business affairs of the corporation. And it certainly will not be contended in the present condition of the law that there are not elements of the business affairs of railroad companies with which the state has no more right to interfere than with those of private individuals. The state has assumed to exercise its police power over railroad companies upon the theory of protection to the public from injuries which might arise from improper construction of its road or rolling stock, or from faulty operation of them. Thus, it assumes to control the construction of it engines and cars so far as the question of the safety of persons using them may require, the operation of its trains

so far as it is necessary to protect the persons on them and those who may rightfully be upon its tracks, the grade at which they may cross one another, with the same idea in view, and as well the maximum rate of fare so far as necessary to protect the public from extortion; but mere questions of expediency have not been considered the subject of legislative control. Considerations of this nature would tend to lead me to the conclusion that this law ought not to be sustained, did I feel myself free to pass upon such a question." It was, in my opinion, the clear duty of the circuit judge to enter judgment in accordance with his convictions.

The constitution grants the legislature the right to fix a reasonable maximum rate. This excludes the power to fix any other rate. It affords the public ample protection against exorbitant and unjust charges. affirmative grant of power often, though not always, implies an exclusion of other supervision upon the same subject. Mr. Story says: "The truth is that, in order to ascertain how far an affirmative or negative provision excludes or implies others, we must look to the nature of the provision, the subject-matter, the object, and the scope of the instrument. These, and these only, can properly determine the rule of construction. There can be no doubt that an affirmative grant of power in many cases will imply an exclusion of all others." Story, Const. § 448. Does not the express power to fix a maximum rate exclude the power to fix a minimum or any other rate? If this same act had fixed a minimum of two cents per mile, and prohibited the carriage of passengers at a less rate, would counsel contend for the existence of these powers? The result of such a provision would be to prevent railroads from giving cheap excursions, now so common, and which accommodate and benefit the people. The object of this constitutional provision is to prevent the imposition of extortionate or unreasonable charges, and to secure to the traveling public a just and reasonable charge, one which would give a reasonable return to investors, and a fair and reasonable rate to the public. The legislature performed this function by fixing 2, 21 and 3 cents per mile as just and reasonable maximum rates. The public are thereby protected. Why should not all contracts within that rate be left to the railroad companies? Is not that a reasonable construction to be placed upon this clause of the constitution? If these companies choose to accommodate the public by offering reduced rates, by mileage, coupon, club, or excursion tickets, is not that within the reasonable maximum rate fixed, and a proper matter for their own control? I can find no reason or excuse for holding otherwise.

If, however, I am wrong in the conclusion that this express power inhibits the exercise of any other upon the same subject, I am still of the opinion that the act cannot be sustained under the police power inherent in the legislature under the constitution. The legislature does not possess all the powers not inhibited by the constitution, and, when one seeks to defend its acts under the police power, he must be able to show that the act is for the protection of the lives, persons, property, or rights of citizens, or to the safety and good order of society. The police power inherent in the legislature is not broad enought to cover every legislative interference with property or personal rights, upon the ground that there is no express inhibition of the power to be found in the constitution. Every person has the inalienable right to the possession, use, and control

of his property and business, so long as he observes the common-law maxim, "Sic utere tuo ut alienum non lædas." The legislature may authorize municipalities to determine of what material the merchant or manufacturer shall construct his buildings within the city limits, to see that they are properly built, and that the plumbing, sewerage, etc., are sanitary. These things are essential to protect the health and lives of employes, patrons, and the public generally. The general public is interested, and hence the legislative interference with what are otherwise the natural rights of individuals is essential and necessary for the good of But if the legislature should attempt to fix the size of the building, the dimensions of its rooms, the price of merchandise to be bought and sold, when he should open or close his store or factory, and the terms of contracts he should make, the courts would not hesitate to declare such acts unconstitutional, notwithstanding no express inhibition can be found in the constitution. The common law secured these rights to the citizens, because their exercise created no injury to others, nor was of concern to the public. They were within the maxim above quoted. When the constitution was adopted, these common-law rights were preserved, and it was unnecessary to declare in the constitution that they remained sacred and intact, and that the legislature could not interfere with them. The constitution was adopted with reference to these existing rights, and impliedly inhibits the legislature from infringing upon them. Among these inherent rights of the citizen is the power to conduct his own business, and to make such contracts as he pleases. right is the same whether the citizen be a natural or an artificial person. Only when the general public are concerned, for their own safety and protection, may the people, through the legislature, protect themselves against exorbitant charges or the conduct of business in a manner injurious to the public.

The constitution is entirely silent upon the subject of contempts; yet it is held that the legislature cannot take away this power from the courts, which has from the earliest time been inherent in them. Cadwick (Mich.) 67 N. W. 1071. We there said: "The constitution leaves this power existing in the court, as it was at the common law." So the constitution leaves to the citizen the control of his property and business, subject to the rules of the common law. "Constitutions are to be construed in the light of the common law, and of the fact that its rules are still in force." 3 Am. & Eng. Enc. Law, 679. Justice Cooley states the rule thus: "The limit to the exercise of the police power in these cases must be this: The regulations must have reference to the comfort, safety, or welfare of society." Cooley, Const. Lim. 577. Black says it includes "all such regulations as may be necessary for the safety and good order of society," and adds: "It is evident that the term 'police power' is a very flexible and comprehensive expression, and difficult of exact definition. But it must not be extended beyond its necessarv and proper limits. When the police power has fulfilled the essential objects of its reservation to the state, it has also reached the boundaries of its legitimate exercise." Black, Const. Prohib. §§ 61, 62. fulfilled "the essential object," in this case by fixing a maximum rate? No claim is made that this maximum rate is not a sufficient protection to the public. Upon what principle of law or justice, then, can this power be invoked by the state to control contracts between its citizens which do not injuriously affect the public or any member thereof? If this legislation cannot be upheld under the police power (and, as already shown, this is virtually conceded), it logically follows that the legislature is vested with unlimited power to regulate and control the management of these corporations, solely because the constitution does not in express terms prohibit. This is a doctrine which, in my judgment, finds no support in authority or reason. Whether railroad companies should issue the tickets in question is a matter of little importance, but the establishment of a rule of control is of great importance. All roads issue 1,000-mile tickets. Some issue these family tickets, and some issue 1,000-mile tickets upon which any number of passengers may ride. When the police power is set aside, the door is open to the legislature to prescribe contracts of all kinds. This is well stated in the opinion of the circuit judge. A somewhat extended discussion of the question is therefore appropriate.

The general rule is not questioned that "the authority of courts of justice to declare void any legislative enactment must be found in express constitutional provisions, limiting legislative power." Text writers and courts have recognized that this rule has its exceptions, and that there are implied as well as express inhibitions. The learned author, Justice Cooley, after stating the general rule, says: "It does not follow, however, that in every case the courts, before they can set aside a law as invalid, must be able to find in the constitution some specific inhibition which has been disregarded, or some express command which has been * * * The maxims of Magna Charta and the common law are the interpreters of constitutional grants of power, and those acts which by those maxims the several departments of government are forbidden to do cannot be considered within any grant or apportionment of power which the people in general terms have made to those depart-Cooley, Const. Lim. 174, 175. In the early case of Calder v. Bull, 3 Dall. 386, the supreme court of the United States said: "I cannot subscribe to the omnipotence of a state legislature, or that it is absolute and without control, although its authority should not be expressly restrained by the constitution or fundamental law of the state. people of the United States erected their constitutions or forms of government to establish justice, to promote the general welfare. to secure the blessings of liberty, and to protect their persons and property from The purposes for which men enter into society will determine the nature and terms of the social compact; and, as they are the foundation of the legislative power, they will decide what are the proper objects The nature and ends of legislative power will limit the exercise of This fundamental principle flows from the very nature of our free republican governments: that no man should be compelled to do what the laws do not require, nor to refrain from acts which the laws permit. There are acts which the federal or state legislature cannot do without exceeding their authority. There are certain vital principles in our free republican governments which will determine and overrule an apparent and flagrant abuse of legislative power, as to authorize manifest injustice by positive law, or to take away that security for personal liberty or private property for the protection whereof the government was established. An act of the legislature (for I cannot call it a law) contrary

to the first great principles of the social compact cannot be considered a rightful exercise of legislative authority. The obligation of a law in governments established on express compact and on republican principles must be determined by the nature of the power on which it is founded. A few instances will suffice to explain what I mean: A law that punished a citizen for an innocent action, or, in other words, for an act which, when done, was in violation of no existing law; a law that destroys or impairs the lawful private contracts of citizens; a law that makes a man a judge in his own cause; or a law that takes property from A., and gives it to B. It is against all reason and justice for a people to intrust a legislature with such powers; and therefore it cannot be presumed that they have done it. The genius, the nature, and the spirit of our state governments amount to a prohibition of such acts of legislation, and the general principles of law and reason forbid them. The legislature may enjoin, permit, forbid, and punish. They may declare new crimes, and establish rules of conduct for all its citizens in future cases. They may command what is right, and prohibit what is wrong; but they cannot change innocence into guilt, or punish innocence as a crime, or violate the right of antecedent lawful private contract, or the right of private property. To maintain that our federal or state legislature possesses such powers, if they had not been expressly restrained, would, in my opinion, be a political heresy, altogether inadmissible in our free republican government." In Durkee v. Janesville, in discussing the power of the legislature to exempt the city of Janesville from the payment of costs in tax cases brought against the city when the city was defeated, the court said that they "care very little whether it is placed on those fundamental principles of law and justice which, in our form of government, it has been held no legislative body can override, even though not prohibited by the written constitution, or upon the provisions of the constitution itself, some of which clearly forbid the enactment of such laws." 28 Wis. 467. These two cases were cited with approval in a unanimous opinion by this Wilder v. Railway Co., 70 Mich. 382, 38 N. W. 289. See, also, Park v. Press Co., 72 Mich. 560, 40 N. W. 731. In the noted and leading case in this state of People v. Salem, 20 Mich. 452, it was vigorously urged by two eminent lawyers that the power of the legislature to authorize municipalities to pledge their credit for the construction of railroads was not expressly inhibited by the constitution, and therefore must be held to exist. The court took the opposite view, and in the majority opinion, written by Justice Cooley, said: "There are certain limitations upon this power not prescribed in express terms by any constitutional provision, but inherent in the subject itself, which attend its exercise under all circumstances, and which are as inflexible and absolute in their restraints as if directly imposed in the most positive form of words." It may be proper here to remark that that case held that "railroads are no longer public works, but private property. Individuals, and not the state, own and control them for their own profit. The public may reap many and large benefits from them, and, indeed, are expected to do so, but only incidentally, and only as they may reap similar benefits from other modes of investing private capital." 20 Mich. 485. See, also, page 489 of the same case. Justice Christiancy, a learned jurist, said in People v. Jackson & M. Plank-Road Co., 9 Mich. 306: "Powers the exercise of which can only be justified on this specific ground [the police power], and which would otherwise be clearly prohibited by the constitution, can be such only as are so clearly necessary to the safety, comfort, or well-being of society, or so imperatively required by the public necessity, as to lead to the rational and satisfactory conclusion that the framers of the constitution could not, as men of ordinary prudence and foresight, have intended to prohibit their exercise in the particular case, notwithstanding the language of the prohibition would otherwise include it."

Now, let us apply to the present case the rule given by Justice Cooley, that the "regulation must have reference to the comfort, safety, or welfare of society." Certainly, it does not affect or promote the comfort or safety of society, or any member of it. The learned counsel say: "Its apparent object is to promote the convenience of persons having occasion to travel." In what way does it promote this convenience? It can promote the relator's convenience only by permitting him to buy one ticket instead of two or more. This is too trifling a convenience to deserve consideration. I am not aware of any decision holding that mere convenience is a test for the exercise of the police power, but, if it were, the law would not regard the purchase of one ticket instead of two ormore a public convenience. Counsel further say: "It brings the reduction of rates of two cents per mile within the reach of all persons who may have occasion to make infrequent trips." Do those "who have occasion to make only infrequent trips" constitute the general public? The provision is not for the benefit or convenience of those who travel on business, for it is the universal custom of railroads to issue 1,000-mile tickets to individuals. Obviously, it will not benefit the great mass of the people, few of whom would expend \$20 or \$25 at one time on a ticket. sole benefit is a pecuniary one to the rich and well to do, who would purchase such tickets for visiting or pleasure. Counsel do not appear to seriously claim that the requirement comes within the rule above stated, but rest their contention upon the broad proposition that the legislature may absolutely control the management of railroad corporations, because they are engaged in a public business; that is, a business in which the general public are interested. The argument that this requirement of the statute is essential to "the comfort, safety, or welfare of society" refutes itself, and cannot be sustained upon the principle of inherent police power.

The argument of counsel logically leads to the conclusion that the legislature may manage and control the business of the railroads of this state just as fully and completely as it could if the state owned them. The state did once own three railroads, of which the respondent was one, and managed them. It did not make a success of the business, and sold them to private parties. Is it possible to hold that the state, by implication, reserved the exclusive right to manage, direct, and control them, and determine what contracts they should make, and then that the courts should determine whether they were reasonable? No such reservation is found in the articles of sale or in any law of the state under which other roads have been constructed. Upon what principle can courts read such reservation into the law? Neither legislatures nor judges are experienced in the business of running railroads. Why

should the former be authorized to make contracts for them, and the latter to determine their reasonableness, when such contracts have no "reference to the comfort, safety, or welfare of society?" The property of railroads is private property. Neither the state nor the public has a penny invested in them. Private capital has contributed every dollar to their construction and equipment. Their owners have built them for private profit, and not as public benefactors; otherwise, the Salem Case was wrongly decided. Railroad companies are common carriers, pure and simple. They are not public corporations in the sense that municipal corporations are public. They are termed "quasi public corporations" only because the general public may deal with them, are entitled to have themselves and their goods carried by them, and are therefore subject to those regulations which are necessary for the protection of the public. This proposition is well stated in the opinion of the learned circuit judge above quoted. The mere fact that the constitution and the statute have given these common carriers the power to obtain a right of way over private property by agreement or condemnation does not confer upon the legislature the power to control their management, as if they were the sole property of the state. Individuals, in their natural capacity, may build a railroad over their own lands, and over the lands of others, where, by agreement, they obtain the right of way, and may hold themselves out to the public as common carriers of freight and passengers. The public would have the same right in such a common carrier as they would have in a corporate common carrier organized under the general law of the state. The fact that a right of way may be condemned for the benefit of the common carrier, as well as for the public, cannot logically be held to make such common carrier a strictly public corporation, over which the legislature has the same control as it has over municipal corporations or over its own property. Article 15 of the constitution treats of corporations. Section 9 authorizes corporations, other than municipal, to take private property for public use; that is, a use in which the public have a public interest, and in which the private corporation has a private Section 15 authorizes municipalities to take private property for public improvements. Section 14 of article 18 authorizes the taking of land for private roads. We need not discuss to what extent these provisions involve the exercise of the power of eminent domain. "Eminent domain is the right or power of a sovereign state to appropriate private property to a particular use, for the purpose of promoting the general welfare." Lewis, Em. Dom. § 1; 6 Am. & Eng. Enc. Law, 511. In its original and strict sense, it implies that the state takes the land, and compensates the private person for his damages. Grotius wrote: "When this is done, the state is bound to make good the loss to those who lose their property." It is now universally held that this right may be delegated to private parties, corporate or individual. But I submit that such delegation to private parties does not take away from them all their common-law rights, and vest them in the State, subject to the judgment of courts as to the reasonableness of the control exercised by the State.

It follows that the inherent power in the legislature to fix rates of carriage by railroads is based upon precisely the same principle as is the power to fix the rates to be charged by all common carriers, such

as hackmen, ferrymen, and other carriers of persons and of freight. No one would contend that the legislature could require hackmen or ferrymen or owners of omnibuses to enter into contracts with their patrons to carry them for two years at a rate below the amount otherwise fixed by law, or that they should carry married men and their families at reduced rates. The legislature of Illinois passed a law fixing a maximum charge for elevating and storing grain. The law was attacked as unconstitutional, but was sustained by the supreme court of the United States, upon the ground that the public had an interest in the business, and it was therefore subject to the control of the legislature so far as fixing the rates was concerned, thereby protecting the public from exorbitant charges. Munn v. Illinois, 94 U. S. 113. The same principle is the basis for the exercise of the police power in regard to railroads, elevators, hacks, ferries, etc. If the legislature does not possess the power in the one case to compel the party, whether natural or artificial, to enter into contracts for the future, neither does it in the other. This subject is so fully and exhaustively treated in both the majority and minority opinions in that case that I will not discuss it further; but, for the purpose of showing the basis upon which courts have sustained the legislative power to fix maximum rates, I quote the following from the majority opinion: "When one becomes a member of society, he necessarily parts with some rights or privileges which, as an individual not affected by his relations to others, he might retain. A 'body politic,' as aptly defined in the preamble of the constitution of Massachusetts, 'is a social compact by which the whole people covenants with each citizen, and each citizen with the whole people, that all shall be governed by common laws for the common good.' This does not confer power upon the whole people to control rights which are purely and exclusively private (Thorpe v. Railway Co., 27 Vt. 143); but it does authorize the establishment of laws requiring each citizen to so conduct himself, and so use his property, as not unnecessarily to injure another. This is the very essence of government, and has found expression in the maxim 'Sic utere tuo ut alienum non lædas.' From this source came the police powers, which, as was said by Mr. Chief Justice Taney in the License Cases, 5 How. 583, 'are nothing more nor less than the powers of government inherent in every sovereignty; * * * that is to say, * * * the power to govern men and things.' Under these powers, the government regulates the conduct of its citizens one towards another, and the manner in which each shall use his own property, when such regulation becomes necessary for the public good. In their exercise, it has been customary in England from time immemorial, and in this country from its first colonization, to regulate ferries, common carriers, hackmen, bakers, millers, wharfingers, innkeepers, etc., and, in so doing, fix a maximum of charge to be made for services rendered, accommodations furnished, and articles sold." The opinion cites Allnutt v. Inglis, 12 East, 527, in which was involved the right to charge arbitrary rates for storage, and quotes from the opinion in that case as follows: "But, though this be private property, yet the principle laid down by Lord Hale attaches upon it,—that, when private property is affected with a public interest, it ceases to be juris privati only; and, in case of its

dedication to such a purpose as this, the owners cannot take arbitrary and excessive duties, but the duties must be reasonable."

The act, moreover, seriously interferes with the power of subsequent legislatures to change and increase the maximum rate should the financial condition of the railroad companies appear to demand it. Thousands of contracts would undoubtedly have been made which would run two years after the act of a subsequent legislature increasing the rate. It is furthermore obvious that parties acting upon the probability of a repeal of the previous law, and the enactment of another increasing the rate, would purchase tickets by the thousand. The legislature could not annul the contracts made under the prior law. A contract valid when made is valid till executed, and the legislature could not annul If they make these contracts to extend over two years, I see no reason why they may not be made to extend over four, eight, or ten, nor do I see any grounds upon which courts could hold them unreason-It can make no difference whether a contract is entered into voluntarily or by a provision of the law. They are equally valid and binding. The State cannot direct that to be done which it could not do itself were it engaged in the business. If this railroad were owned by the State, as it once was, and the State should make such contracts extending over two or more years, it would be held to the fulfillment of its contracts, even if it were dishonest enough to attempt to repudiate them. It is immaterial that some railroad companies have issued tickets of the kind provided by this act, or that the respondent has issued 1,000-mile tickets to single individuals. The power of the legislature is not to be tested by the voluntary acts of the parties over whom control is sought to be exercised. Because common carriers have made contracts with their patrons, the legislature is not therefore authorized or justified in enacting that such contracts shall be made. The same rules of construction must apply as would be applied if 1,000-mile tickets had never been issued, and the legislature were attempting for the first time to compel their issuance. If the legislature possessed the power to so enact, subject to reasonableness; the fact that such contracts had been voluntarily made would be evidence of the reasonableness of the law compelling them, but is of no force whatever in determining whether the power exists. Probably, all railroad companies have issued excursion tickets at less than a cent a mile, and valid for a few days. Does this fact authorize the legislature to enact that such companies must give these excursions, and to determine how often, at what rate, and the time within which the tickets shall be good for passage? Is this within the constitutional power of the legislature, either express or implied, to protect the public from extortion by fixing reasonable maximum rates? The opinion of the court should be affirmed, but its judgment was erroneous, and should be reversed, and the petition dismissed, with the costs of both courts.

Hooker, J. I concur in the conclusion reached by my Brother Grant. Our constitution adopted in 1850 provides that "the legislature may, from time to time, pass laws establishing reasonable maximum rates of charges for the transportation of passengers and freight on different railroads in this State, and shall prohibit running contracts between

such railroad companies whereby discrimination is made in favor of either of such companies owning connecting or intersecting lines of Const. Mich. art. 19a, § 1. Acting upon this authority, the legislature fixed a maximum rate per mile for the transportation of passengers which the railroads might charge. The first attempt to do more was by an act which recognized the short haul, and allowed a higher rate per mile for short distances than for long. It is now proposed by the act under consideration to discriminate in favor of the passenger who shall purchase transportation in large quantities, by giving him a lower rate, and to give special advantages to men of family. Will the next step be a law requiring the sale of transportation for freight at a reduced rate to large shippers? Without discussing the propriety of discrimination by the railroad companies, based upon competition and common business principles, we may well doubt the validity of legislation requiring it. The interstate commerce act seems to have been designed to prevent the very thing that this law requires. I have doubts of the constitutionality of legislation which does more than to assure to any person the right of carriage upon payment of the ordinary lawful fare. Under the constitution, our legislature may fix a maximum rate, and, while the question of discrimination growing out of the long and short haul was not discussed, the validity of such legislation may be settled by the Wellman Case, 143 U. S. 339, 12 Sup. Ct. 400. I am of the opinion, however, that the legislature has no power to say that a ticket shall be sold to one man cheaper than to another, or that it shall have a broader effect, and therefore a greater value, to one than to another, depending upon a willingness to purchase the right to transportation in large quantities, or upon the fact that the purchaser has a family. It might as well be made to depend upon his age, occupation, poverty, or necessity, as upon his ability to purchase in quantities, or to have and support a family. Again, the word "maximum" cannot be ignored. It has some use in the constitutional provision. To my mind it excludes the power of discriminatory legislation, leaving it to the railroad companies to make lawful concessions to their patrons as their business interests may require or permit.

(NOTE BY COMMISSIONER.—For valuable legal opinion upon the subject of the special charter involved in the above case, and as well upon the validity and effect of other special charters, see Commissioner of Railroads Report, 1890, page lxix, the opinion being by Messrs. Atkinson, Carpenter, Brook and Haigh, attorneys-at-law, and ex-Judge Marston, of counsel.

See also valuable opinion prepared by the Hon. D. D. Aitken, attorney-at-law, and Mr. Fred H. Britton, as contained in the Detroit Evening News of dates April 29, May 2 and May 6, 1895; files of which paper can be found in the State Library at Lansing.

See also briefs of counsel for and against relator in the case of Hazen S. Pingree versus the Michigan Central Railroad Company, now pending in the Wayne County Circuit Court this date; copies of which can no doubt be obtained from the Clerk of the Court.)

SUPREME COURT OPINION IN THE CASE OF MANISTEE & GRAND RAPIDS RAILWAY COMPANY VS. AUDITOR GENERAL.

An important decision relative to the computation, assessment and collection of railroad taxes has been handed down by the Supreme Court of this State and the same is herewith given in full.

MANISTEE & GRAND RAPIDS RY. CO. VS. AUDITOR GENERAL.

Opinion filed December 15, 1897.

RAILROAD COMPANY—TAXATION—ACT 174 P. A. 1891 CONSTRUED—FAILURE OF COMMISSIONER OF RAILWAYS TO COMPUTE TAX.

The exemption in Act 174, Public Acts of 1891 providing that "the rate of taxation fixed by this act or any other law of this State shall not apply to any railway or railroad company hereafter building or operating a line of railroad within this State, north of parallel forty-four of latitude, until the same has been operated for the full period of ten years, etc., held not to apply to a corporation which organized and had entered into the construction of its line of road nearly two years before the time the act became operative, and, at the time the act took effect, had nearly two-thirds of its line in such condition that it was running trains over it and earning freight.

The provisions of Section 3358, Howell's Statutes as to the time when the Commissioner of Railroads shall compute the amount of tax due, is directory merely, and

not mandatory as to time.

Where a Railroad Commissioner in former years has failed to compute the taxes, a change in the incumbent of the office, held not to effect the right of the State to have the computation of taxes to become due from a railroad company, made and filed.

The exemption in Act 174 Public Acts of 1891, applies to and relieves from taxation complete lines of railroad the whole of which have been built and operated since the act took effect, and not continuations of, or additions to, existing railroads.

Appeal from the circuit court for Manistee county; James B. McMahon, Judge.

Bill filed by the Manistee & Grand Rapids Railroad Company against Stanley W. Turner, Auditor General. From a decree for defendant, both parties appeal.—Modified and affirmed.

T. J. Ramsdell, for complainant (Hanchett & Hanchett, of counsel).

Fred A. Maynard, Attorney General, for defendant.

Moore, J.

Complainant filed a bill to set aside taxes assessed by the Commissioner of Railroads against the complainant company for the years 1891, 1892, 1893 and 1894.

A decree was entered in the court below setting aside the taxes for 1891 and 1892 and sustaining them for 1893 and 1894. From this decree both parties appeal.

The record shows, that the complainant company is situated north of parallel 44 of latitude, that its road is for the purpose of carrying freight and that it is not a road for carrying passengers. It was organized Nov. 11, 1889, and in December of that year commenced the construction of its line of road which at the date of the institution of

this proceeding was about thirty-one miles long.

The work progressed so that in August, 1891, about eighteen miles of track was laid and partly ballasted and the company began to haul logs for the owners of timber along the line of its road and to carry camp and mill supplies. Prior to October 2, 1891, it had hauled about five million feet of logs, and two hundred thousand pounds of mill and camp supplies. The road bed was in such condition at this time it was necessary to run the trains very slowly. Prior to October 2, 1891, the receipts for the traffic of the road amounted to about seven thousand dollars.

The complainant reported from year to year the business of the road to the Commissioner of Railroads. The official did not make or file with the Auditor General any computation of any tax against said complainant for the years 1891 and 1892.

In May, 1894, the then Commissioner of Railroads made and filed with the Auditor General a computation of taxes as due from the complainant, not only for the year 1893, but also for the years 1891 and 1892. A year later a like computation was made for the taxes of 1894. It is to set aside these taxes that this proceeding is instituted.

The taxes are assessed by virtue of the provisions of Act 174, Public Laws of 1891, which act took effect October 2, 1891. This act has a provision reading as follows: "Provided further, That the rate of taxation fixed by this act or any other law of this State shall not apply to any railway or railroad company hereafter building and operating a line of railroad within this State north of parallel forty-four of latitude, until the same has been operated for the full period of ten years, etc."

It is the claim of complainant that its line of road was not built and operated until the act took effect and for that reason it is exempt from taxation. In construing this statute it may be pertinent to inquire what is its purpose. It is a matter of common knowledge that the portion of Michigan lying north of parallel forty-four of latitude is much more sparsely settled than the southern portion of the State and does not offer so inviting a field for the investment of capital. It was undoubtedly the purpose of this legislation to encourage capital to invest in new railroad enterprises in the newer portion of the State. The complainant, however, was organized and entered upon the construction of its

line of road nearly two years before the act became operative, and it

can hardly be said the purpose of the act was to apply to corporations like the complainant.

Can it be said that the complainants' line of road is included in the phraseology of the statute when it says the rate of taxation shall not apply to "any railroad company hereafter building and operating a line of railroad?" As has already been stated, the complainant had entered upon the construction of its line of road nearly two years before this act took effect and when it took effect had nearly two-thirds of its line in such condition that it was running trains over it and earning freight.

"As taxation is the rule and exemption the exception, the intention to make an exemption ought to be expressed in clear and unambiguous terms, and it cannot be taken to have been intended when the language of the statute on which it depends is doubtful or uncertain. "It is also a very just rule that, when an exemption is found to exist, it shall not be enlarged by construction. On the contrary, it ought to receive a strict construction; for the reasonable presumption is, that the State has granted in express terms all it intended to grant at all, and that unless the privilege is limited to the very terms of the statute, the favor would be extended beyond what was meant."

Cooley on Taxation, page 204.

Lake Shore & Mich. Southern Ry. Co. vs. Grand Rapids, 102 Mich. 374, 380.

We think it clear that the complainant is not within the exemption of the statute.

Complainants claim the the person who was Commissioner of Railroads holding office in 1892 and 1893 is the only officer authorized to make the assessment of the taxes of 1891 and 1892, and that the act of his successor in office in making the assessment of these taxes in May, 1894, was unauthorized and beyond his jurisdiction.

It is argued by counsel for complainant,

"The whole authority for making the assessment by the Commissioner of Railroads if found in I Howell's Statutes, sec. 3358.

The provision is explicit that he shall make the assessment on or before May 15, upon the report of the railroad company made for the preceding year.

The assessment so made becomes due as a tax on the first day of the following July. It then becomes a lien upon the property of the railroad company. Taxation is a proceeding which is adverse to the taxpayer and depends wholly upon statutory provisions. A tax lien cannot be created against the taxpayer's property except by a strict compliance with the provisions of the statute by the officers who assess or levy the tax. This is a fundamental law in taxation.

Cooley on Taxation, pp. 217, 218, 323, 324, 325. 25 Am. & Eng. Ency., pp. 76 to 79, 202. Hoyt vs. East Saginaw, 19 Mich. 39 at 45, 46. Scofield vs. City of Lansing, 17 Mich. 437, 446, 447. Seymore vs. Peters, 67 Mich. 415.

The omission or neglect of the Railroad Commissioner to assess the tax on or before May 15, 1892, upon the report for 1891, or his omission or neglect to assess the tax on or before May 15, 1893, upon the report for 1892, would not make an assessment for such tax made upon the same report by the Auditor General a valid tax, for the reason that the statute confers upon the person holding the office of Commissioner of Railroads the power to assess the tax and confers the power upon no one else. If he omits to do his official duty no provision is made for its being performed by any one."

The logic of this reasoning is, that though the legislature has by express enactment provided for a specific tax, the amount of which can be determined by a simple computation, that its rights to the tax can be utterly lost because an administrative officer does not, through inadvertance or through misinterpretation of the law, or for any other reason, make the computation at the time when he is directed to do so by the statute.

The duty to make the computation required by the statute does not devolve upon the individual in his personal capacity, but it devolves upon the official. And though the computation which ought to have been made in the years 1892 and 1893 was not in fact made until 1894, it was made by the same official, though a different person, who made it as though it had been made at the time designated by the statute.

The rate of the tax was fixed by the legislature, the only effect of the delay so far as the complainant is concerned is that it has not been required to pay the debt due the State as soon as it would have been

obliged to do if the direction of the statute had been followed.

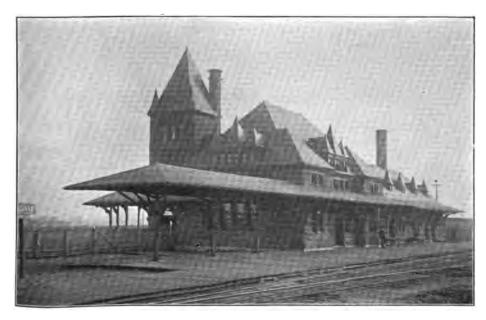
We think the provision of How. Ann. Stat., sec. 3358, as to the time when the Commissioner of Railroads shall compute the amount of tax due is so far directory as to be brought within the decisions of this court in Attorney General vs. Supervisors, 30 Mich. 368, and Oceana vs. Hart, Id. 319. In the last named case there had been a failure by the board of supervisors to spread upon the roll delinquent taxes at the time provided by the statute, and in disposing of the case it was said: county is entitled to a return of money or delinquent taxes to the full amount of the tax levy, and the failure to have such a return rises out of the town treasurer's delinquency. By sec. 1105 of the Compiled Law, all losses sustained by such default are chargeable to the township, and the board of supervisors are required to add the amount to the next year's taxes. It is claimed the failure to add the sum to the next year's taxes leaves no future power in the board to require their collection, as the statute requires no action but for the next year. We have no doubt the time provision is directory and that a failure to act at once does not cancel the debt. It would require clear language to justify the inference that an obligation of this sort can be cancelled by such inaction."

A debt due the State by the complainant cannot be cancelled by such inaction of the Commissioner of Railroads as was shown here.

See Cooley on Taxation, p. 289. Sutherland Stat. Const., p. 575.

The complainant contends, that if the court finds from the record that the eighteen miles of road was so far completed as to take the road out of the exemptions of the statute, the decree should be modified so as to subject the road to taxes on the gross earnings of the eighteen miles only. The exemption mentioned by the statute refers to "a line of railroad" hereafter building and operated, and not to such portion of the line as may hereafter be constructed. It is evident that the line of road which the complainant expected to build when it was incorporated was the line which it has since built. The tax should not be confined to the eighteen miles, but should be assessed against the gross earnings of the line, a major part of which was constructed and operated when the law went into effect. The decree cancelling the taxes of 1891 and 1892 should be reversed and the bill dismissed with costs of both courts.

The other justices concurred.



M. C. R. R., NORTH SAGINAW

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CONCERNING THE STATE'S METHOD OF COMPUTING TAXES.

The present system of levying and collecting taxes on railroads in Michigan is followed in but few of the other states of the union. Nearly all the states have some form of taxation on values, but Michigan still clings to the peculiar system of taxes on earnings. To be sure, the railroad tax in this State is technically referred to in the law as "a specific tax upon the property and business of such railroad corporation operated within the State." But this specific tax is computed upon the gross income, and is in effect a tax upon earnings. These earnings are reported by the railroads themselves to the Commissioner of Railroads, and the latter simply does the clerical work of computing the tax. machinery for collecting it is found in the Auditor General's and State Treasurer's office. The Commissioner of Railroads is required on or before the fifteenth day of May in each year, to make and file with the Auditor General a computation of the amount of tax which will become due on the first of July from each railroad company liable to pay taxes under the provisions of the tax law. The law requires that this computation shall be based upon the report of the railroad company for the preceding year, and provides, to, the penalty for a failure to file such report.

Under the present railroad tax law, a railroad company can, if it desires, practically fix the amount of its tax to suit its own pleasure. The truth of this is apparent when it is considered that each railroad reports its own earnings, from which the taxes are easily determinable by the application of the simple rules of percentage. If there is an effort on the part of a railroad to conceal any portion of its earnings, this effort will generally be rewarded by a reduction in the amount of taxes to be paid. It will be seen that in the case of interstate roads, a portion of whose line is in Michigan, some of the earnings that properly belong to this State could be easily concealed in such a manner as to make detection almost impossible; and even, too, in the purely Michigan roads concealment of part of the earnings is comparatively easy. It is almost impossible to discover errors or concealment, if any be made, without an enormous expense in the employment of experts. The scheme of railroad bookkeeping is so elaborate and intricate, especially in the case of interstate lines, as to preclude the possibility of making an investigation of the books that would prove of much real value. The earning reports of many roads have been very unsatisfactory in the past; but in nearly all cases investigations have only served to show the utter helplessness of the State in attempting to prove their inaccuracy. In some cases, however, the earnings have been so ludicrously small that the mere presentation of the matter to the railroad companies has caused them, voluntarily, to make some concessions to the State, though not large enough concessions to make their reports entirely satisfactory. • The State has, in those cases, been compelled to take what the companies would give, and has been glad, indeed, when they showed a willingness to modify their reports in any way that would make them more satisfactory to the State.

Indeed, the statute, as now worded, makes it nearly, if not quite, impossible for the interstate railroad companies, without going to an

enormous expense, to keep track of the actual earnings of their roads in Michigan. For instance: If a parcel is shipped from Marquette over different systems to some point in the eastern or southern states and the total freight charged upon it to its destination would be \$1, it might be necessary for three railway systems in Michigan to calculate their respective share of their earning contained in the dollar; and, indeed, it is their duty under the statute in such case, to calculate the company's exact earning in carrying this parcel, making it necessary not only to divide this dollar with other railway systems outside of the State, but making it necessary to compute the Michigan earning and divide it among two or three systems of railroads in this State.

The statute leaves no room for an estimate of what the earning would be; it must be the actual earning, to be determined, therefore, by an exact calculation of the amount earned by each company in transporting either small articles or bulky freight. In the limited time given for investigating the matter, this department has discovered that railroad companies in their reports either estimate their Michigan earnings or include only such as are easy of calculation. Both methods being con-

trary to law.

It is true that the commissioner is given the power to examine into the condition and management of matters concerning the business of railroads in this State so far as the same affect or relate to the interest of the public and to the accommodation and security of passengers or persons doing business therewith; and that he is given power to examine books, papers, records and vouchers of railroad corporations in this State; power, too, to examine, under oath, directors, officers, managers, lessees, employés or agents of any railroad corporation concerning matters relating to the condition and management of the business of such But just to what extent he could exercise this power in the corporation. case of interstate roads with officers beyond the jurisdiction of the State courts, is a matter concerning which there is much doubt and difference of opinion; and even if he could exercise the power, it would be impossible without the expenditure of an enormous amount of money. Then, too, the time in which the commissioner has an opportunity to investigate these matters is totally inadequate for the purpose, if, indeed, any length of time would be sufficient to disprove the figures of the railroad companies when they might be unfair to the State. railroads are required to make their reports to the commissioner on or before the first day of April. The commissioner is required to make his report to the Auditor General on or before the fifteenth day of May, so that it will be seen that only six weeks are given in which the commissioner can look into these books with a view to determine their accuracy. When it is considered that over eighty roads make reports, it will be seen how utterly inadequate the time is in which to make anything like a reasonable investigation of the accuracy of the reports. It must then be evident to any one who will take the facts surrounding the present system of railroad taxation into consideration, that the State is entirely at the mercy of the railroads in this matter, and that in the great majority of cases unless the reports are outrageously untrue, practically nothing can be done. And so long as this system of railroad taxation remains in force, this injustice must needs continue.

Below a table is given showing that the interstate roads that operate in Michigan do not give to this State her fair proportion of earnings, and for that reason Michigan does not get from these railroads the amount of taxes which, under the law, she should have. It will be noticed that a small percentage of the roads named below give Michigan a larger proportion of earnings than she would have if they were reckoned on a mileage basis. But in the case of the roads that make this showing, it will be readily seen that they are roads almost all the earnings of which must naturally, from their location, come from Michigan; and it is not at all reasonable to draw the conclusion that they have reported to this State any more than Michigan's fair proportion of taxes. But to be perfectly fair in the statement, we have in the table below given due credit for their larger proportion.

By act No. 129 of the Laws of 1893, the present system of computing the taxes was inaugurated. Prior to that enactment the law provided that in the computation of the taxes, companies doing interstate business should pay a tax in proportion to the "length of the operated road lying within this State compared with the whole length of the system." The table above given shows the injustice done the State, not only by the manner of reporting earnings, but by the enactment of the law above mentioned.

Without admitting that a system of taxation upon gross earnings without reference to the values of the property is just, I call attention to the injustice of the present manner of computation as applied to roads doing an interstate business. If the method of computation in vogue prior to 1893 was still in existence, and was applied to all roads given in the above table, the State would have received in taxes from the interstate roads for the year 1896, \$876,701.53, instead of \$584,269.45, and the total tax received from railroads would be \$1,034,463.18, instead of \$742,074.63.

These last figures do not take into consideration any inaccuracies or mistakes that might possibly have crept into the reports of earnings made by the purely local or Michigan roads.

From what has been stated above, it is apparent that the present system of taxing railroads is unjust:

First, Because it is inequitable as compared with the tax upon other property, and because it is unjust to tax one kind of property upon its earning capacity and refuse the same privilege to other property;

Second, Because the State, under the present law, is powerless to determine whether the earnings reported by the companies are accurate or not, the whole machinery for determining and reporting the same being practically within the control of the railroad companies;

Third, Because a partial control thereof by the State is inadequate to protect it;

Fourth, Because the system as applied to roads doing an interstate business is a usurpation of the power of congress to regulate commerce between the states, and to that extent is void;

Fifth, Because the legislature, by adopting a system of taxation relative to railroads in vogue either in New York, Massachusetts, Ohio or Indiana, or some of the other states, can do justice between the railroads and the State through a system which shall be simple, direct and just.

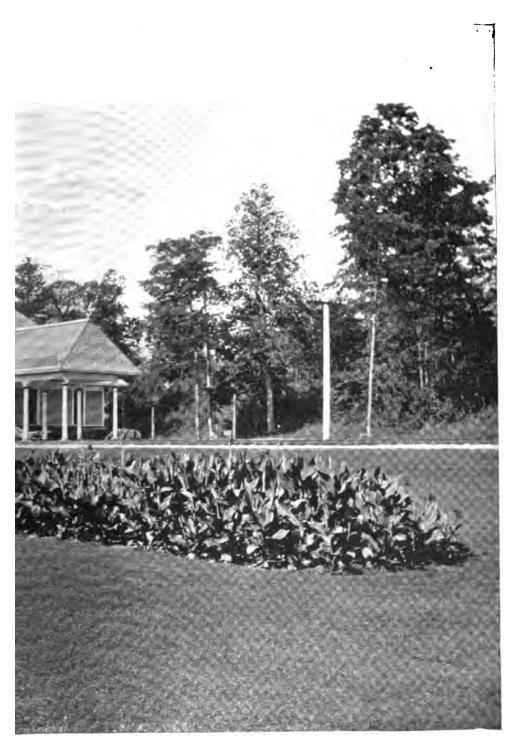
Estimated tax figured on mileage basis.

Railroads.	Total miles.	224 152.08 521.19 454.04 190.87 35.14 475.03 442.98 25.05 575.27 15.90 1,136.55 199.23 31.95	66.71 2.47 10.36 91.08 46.05 1.94 80.74 75.75 63.75 39.98 18.26 69.20	Total earnings.		Earnings reported for Michigan.		Proportion of earnings reported for Michigan. Per cent.	Earnings per mile, entire line,
Ann Arbor Chicago & Grand Trunk Chicago & Grand Trunk Chicago & Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Clevel, Cinc. Chicago & St. Louis Duluth, South Shore & Atlantic. Grand Rapids & Indiana System Indiana & Lake Michigan Lake Shore & Mich. South. Syst.* Lima Northern Michigan Central System Minneap., St. Paul & S't St. Marie. Wisconsin & Michigan † Wabash	302.73 335.27 6,150.75 5,030.78 498.70 414.49 1,804.74 558.35 584.79 39.29 1,439.66 87.07 1,642.37 1,188.7 1,1979.60			31,654,96 32,177,15 1,517,86 707,08 13,011,46 1,938,21 2,065,61 66,97 20,548,76 29,87 13,861,26 3,718,90	18,518 00		355 26 865 72 694 60 698 01 081 03 064 72 171 49 098 17 288 48 382 24 381 35 208 64 869 85	6 64.69 75 6 50 6 50 1 93.01 3 45.26 2 10.07 9 89.83 7 85.95 8 64.63 9.97 7.76 4 54.16 5 20.99	9,987 53 5,097 33 6,396 06 3,044 86 1,730 64 7,078 71 3,239 36 4,151 65 1,704 51 14,026 89 343 15 8,405 65 3,105 65 1,512 61
Total	22,159,15	4,856.52		\$138,084,59	9 25	\$21,669,186 72			
Railroads,	Earnings per mile, for Michigan.	Michigan proportion of earnings, figured on mileage basis.		Michigan taxes based on earnings, figured on mileage basis,	Taxes actually paid in Michigan.		Deficiency in amount of taxes actually	with taxes on mile- age basis.	Surplus.
Ann Arbor Chicago & Grand Trunk Chicago & Grand Trunk Chicago & Northwestern. Chicago & West Michigan Cincinnati, Jackson & Mackinaw Clevel, Cinc., Chicago & St. Louis Duluth, South Shore & Atlantic. Grand Rapids & Indiana System Indiana & Lake Muchigan Lake Shore & Mich. South. Syst.* Lima Northern Michigan Central System Minneap., St. Paul & S't St. Marie Wisconsin & Michigan. Wabash	\$3,458 26 9,671 23 1,570 65 4,017 14 3,111 676 96 3,729 78 3,597 71 1,728 08 5,634 00 145 99 6,606 14 3,826 65 1,066 05 4,320 58	2,233,796 36 781,877 69 3,333,553 03 1,382,470 51 325,445 27 252,422 37 1,564,902 96 1,564,703 05 42,693 44 8,215,067 97 5,455 75		\$25,730 71 66,951 85 13,359 27 85,052 95 30,021 36 6,508 30 6,726 48 34,372 52 31,887 77 270,675 71 1270,025 77 13,589 90	64,254 21 3,559 17 47,175 13 30,752 05 6,401 62 2,925 21 38,778 92 39,228 92 71,771 46 42 229,078 81 17,529 44		\$3, 2, 9, 37, 3,	043 83 697 64 800 10 877 82 106 68 801 27 904 29 946 96 920 36	\$730 69 4,406 46 4,541 15 12 00 3,939 54
Total		\$31,627,	767 07	\$876,800 25	\$58	4,268 45	\$306,	161 64	\$13,629 84

^{*} In the above table the Lake Shore and Michigan Southern Railroad, heretofore taxed under a special charter, is treated as coming under the general law of taxation. This is justified by the provisions of act No. 123 of the session laws of 1891, and by the recent decision of the supreme court in the case of Smith vs. Lake Shore and Michigan Railroad Company.
† This road pays no taxes in Michigan, but the remainder of the system, extending into Wisconsin, pays taxes in that state.



C. & W. M. Rt



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MICHIGAN'S RESOURCES AS BEARING ON THE SUBJECT OF PRESENT AND FUTURE OF MICHIGAN RAILROADS.

Few states are richer in natural resources than Michigan. These resources are being rapidly developed and afford a splendid field for the successful operation of railroad enterprises. The extent and variety of Michigan's resources are surprising, even to many of the best informed citizens of the State. The amount of her freight and passenger traffic will compare very favorably with that of other states. Michigan's position as a railroad state is often misrepresented, much to the detriment of the State. It is therefore a matter of special pride and gratification to be able to present some facts which cannot fail to disprove the false position that is sometimes taken. Throughout the discussion that follows, comparison is frequently made with the resources of neighboring states, for the purpose of giving as clear an idea as possible of Michigan's relative position.

Before giving any statistics, it may be stated in a general way that Michigan is first in the production of lumber, iron ore, charcoal pig-iron, gypsum, furniture, and fruit; first, too, in inland fishery and lake commerce. Michigan is also first in the number and variety of her summer resorts, which furnish a transportation business for railroads not enjoyed by companies operating in other states. She furnishes more than one-third of the entire copper product of the United States. In the value of her sheep and wool, she is only surpassed by Ohio and California.

Statistics will be given later to show her exact position in these various lines of industry.

CENTRALLY LOCATED.

The shortest routes for the transportation of interstate commerce, both to the east and the west, are through this State. We refer to the three great trunk lines in this connection: The Michigan Central, Grand Trunk, and the Lake Shore & Michigan Southern railroads. Michigan has water facilities which compete, to some extent, with her rail facilities, yet she provides her railways, and especially such of them as extend their lines and connections to the far east, with the grains, timber, minerals, ores and manufactured goods of the northwest. business is now being greatly increased by the introduction of the system of car ferry transportation, by which many lines heretofore local have been made through freight and passenger lines. Notably, the Flint & Pere Marquette, Ann Arbor, Chicago & West Michigan, and Detroit. Grand Rapids & Western railroads. Water transportation is by no means wholly a hindrance to freight transportation by rail, inasmuch as nearly, if not quite, all freight transported by water is carried also by rail to and from inland points.

AGRICULTURAL RESOURCES.

Agriculture is the chief producing interest of the State, and still engages the largest portion of her people. It will undoubtedly continue to develop and will remain the chief producing interest for many years to come. Happily, however, Michigan, unlike most of her sister states, is not altogether dependent upon this interest for her wealth and prosperity. Yet, few states excel her, either in the volume of crops or in the quality of products.

Progress in the direction of the development of the State's agricultural resources has been very rapid indeed. The land area of the State is 36,361,919 acres, of which 15,296,076 acres have been occupied as farm lands, but only 10,379,515 of which are improved and tilled. There are 178,051 farms in the State. This shows an increase in a period of ten years of 18,442 farms, or 443,852 acres of land occupied for farming purposes. During the same time there was an increase of 1,404,859 acres in improved and tilled lands.

In the aggregate of farm crops, Michigan compares well with surrounding states, not alone in the amount of products raised, but also in the yield per acre. For example, Michigan's yield of wheat for 1896 was 17,861,999 bushels as against Wisconsin's 4,343,008, Ohio's 17,269,545, and Indiana's 24,574,853 bushels. This is an average of 12 bushels per acre in Michigan, and $8\frac{1}{2}$ in Ohio and Indiana. For the year 1897, Michigan's wheat crop was 24,925,007 bushels, an increase of 7,063,008 bushels over the year 1896. Her yield of corn for 1896 was 81,733,087 bushels, or an average of $68\frac{1}{2}$ bushels per acre. For the same year Wisconsin's corn crop averaged but 28, Ohio's 27 and Indiana's 37 bushels per acre. In 1896 Michigan produced 24,831,041 bushels of potatoes, Wisconsin 20,041,331, Ohio 12,852,147, and Indiana 7,107,809 bushels. Michigan's crop averaged 92 bushels per acre, Wisconsin's 80, and Indiana's 69.

It may be noted here that the greatest increase in agricultural resources has been in the northern portion of the State. Farms in the southern counties have decreased in value \$61,760,047; the value of their products has decreased to the extent of \$6,227,057; and the value of farm implements and live stock kept upon them has decreased \$758,606 and \$17,435.055, respectively, chiefly and perhaps solely on account of the financial depression. Notwithstanding this condition in the southern portion of the State, there was an increase in values in counties north of the 44th parallel, where railroads are exempt from taxation, \$8,248,215 in the value of farm lands; of \$3,734,052 in the value of farm products; of \$2,202,861 in the value of farm implements, and an increase of \$2,489,814 in the value of live stock.

These figures would seem to indicate that when the lumberman shall have finished his operations in the northern district of the State and shall have been followed by the thrifty and industrious husbandman, that portion of Michigan will rank well in the amount of its products with the fruitful southern counties of the State, and will furnish business to as many railroads as does southern Michigan.

LUMBER.

For many years lumbering has been the chief manufacturing industry of Michigan. While it may be admitted that the yield of pine has been greatly lessened, the impression that the supply has been wholly exhausted is entirely erroneous.

From the report of the Labor Commissioner's department for 1896 it will be seen that there remains standing 8,410,350 acres of land upon which no timber has been cut; and 8,326,477 acres of timber land upon which only a portion has been cut. It is immaterial what proportion of these lands are pine timber lands, inasmuch as the price of hardwood, owing to the scarcity, has increased greatly, and there is now a market for all that is left within the State. While there are no authenticated reports as to the exact magnitude of the lumber business in the State except for the year 1892, some idea of its extent and value as a commodity for transportation by rail and otherwise, may be gathered from the figures for that year. The enormous number of 2,140,-800,000 shingles were produced. In addition to this, Michigan's forests yielded 3,794,256,754 feet of lumber, including much hardwood. present a large portion of the lumber product is being manufactured in the State and the manufactured articles again shipped, thereby paying double tariff to the railroads for the transportation thereof, the most of it being consumed in the manufacture of furniture and other articles designated as woodenware.

There are engaged in the consumption of this forest product 178 furniture factories in Michigan, with \$10,000,000 of capital invested, employing more than 10,000 men, paying \$4,000,000 per annum for labor, using \$6,000,000 worth of material and turning out for the market more than \$12,500,000 worth of furniture.

Aside from the manufacture of furniture, there are located in the State, 8,842 factories engaged in other lines, with a capital of \$252,257,205 invested, paying \$60,188,150 yearly for labor, using \$125,743,139 worth of material, and turning out an annual product valued at \$237,857,772. For the same year Wisconsin's manufactured product was valued at \$218,132,973, and that of the state of Indiana at \$226,825,411. Indiana's factories employed but 124,349 men and had invested but \$131,605,366 in capital, and paid \$51,749,976 for labor.

MINERAL RESOURCES.

Few people realize the importance that Michigan has acquired as a mineral bearing state. Some idea of the magnitude of the mining industry of the State may be drawn from the fact that the value of Michigan's minerals for the year 1895 reached \$31,000,000, and in the year 1896 it exceeded \$34,500,000. Some additional mineral statistics are here given for the purpose of better pointing out the importance of this industry. For example, nearly 40 per cent of the domestic product of iron ore, and more than 10 per cent of the world's supply, is taken from Michigan mines. The world's product for the year 1895 was 59,

035,000 tons; that of the United States, 15,957,614 tons, and Michigan for the same year yielded 6,063,267 tons. In 1896 there was produced in the United States 14,650,000 tons, of which Michigan furnished 5,448,696 tons, or upwards of 37 per cent of the entire output, some twenty-four other states contributing the other 63 per cent. Michigan's product for 1896 was marketed for \$17,459,146.

Although in the past twenty years more than 83,360,681 tons have been taken from her mines, still Michigan's iron fields are practically undeveloped, and in the near future she is bound to supply the world with her product. A noteworthy feature of the product of the iron mines of the State is the excellent quality of the ore produced, surpassing that of any other state. The percentage of iron will average 63, while the ore from the southern fields will fall 20 per cent below this. Michigan is producing large quantities of Bessemer ores. These are necessary for the manufacture of steel; and this adds wonderfully to the importance and value of Michigan mines since it is from these

that the United States must secure its supply.

Of the 839,718,000 pounds of refined copper mined in the world in the year 1896, the United States produced 450,696,760 pounds, or more than one-half of the world's yield. During the same year 138,396,760 pounds, or 17 per cent of the world's product and more than 38 per cent of the entire product of the United States, was taken from Michigan mines. The yield for that year had a market value of \$15,057,567, or an increase of \$1,128,378 over the previous year. Several million pounds of this copper are being manufactured yearly by the rolling and wiredrawing mills in the State. The product of the Superior region is the purest and richest known, and excells all other in strength, toughness and conductivity, on account of which it ever finds a ready and open market at an advanced price in this and other countries. Because of the advancement made of late in electricity, the demand for Michigan copper has greatly increased. During the brief period that the Upper Peninsula mines have been in operation they have marketed 2,071,146,-760 pounds of refined copper at a value of \$305,057,567; and during this time \$74,860,375 have been paid to the stockholders as dividends. Those for the year 1896 amounted to \$4,400,000. The yearly increase of Michigan's copper production is large and steady, amounting to about 5,000,-000 pounds (and last year reaching 8,822,904 pounds). While much has already been done in our copper fields, there is yet much more to be accomplished. Only a small portion of the territory productive of the metal has been developed. The copper bearing formation is 130 miles long and from 3 to 15 miles wide. Upon this large tract the present working mines are embraced in 13 square miles, or less than one-eightieth of the mineral bearing territory.

For years we have led all other states in the manufacture of charcoal pig iron. In the year 1896 the United States produced 310,244 tons, a gain of 84,903 tons over the previous year. Michigan produced in the same year 146,869 tons, which was an increase of 58,169 tons over the previous year's output. From this it will be seen that Michigan furnishes as much as all of the other states of the union combined, and that 70 per cent of the net increase of the production in the United States for 1896 came from Michigan.

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M. C. R. R., COLUMBIAVILLE

The State bears the proud distinction of being first in the amount and quality of salt produced. In 1896 it marketed 3,968,344 barrels, which represents 26 per cent of the entire product of the United States for that year. The Michigan product is one that finds ready market throughout the entire country.

Michigan coal fields are becoming of great importance, and rapid progress is being made in their development. The yearly output now exceeds 50,000 tons. One-half of all the gypsum mined in the United States comes from Michigan; and in 1896 the yield amounted to 56,000 tons. Great interest is being taken in the quarry of sandstone, grindstone, granite, marble and slate, and these industries promise to be of great importance to the State in the future.

It has been claimed that the largest portion of Michigan's minerals are transported to the market by means of the great lakes, thus depriving the railroads of any benefit whatever from these resources, but the falsity of this position is apparent from the fact that there was mined in the State in 1896 but 6,500,000 tons of minerals, and the railroad reports for the same year show that they moved 13,695,268 tons. From this it is evident that the railroads not alone move the ore from the mines to the smelters and refineries, but also transport it from them to the ports and to the consuming market, thus realizing a double tariff on this product.

When one considers Michigan's undeveloped resources in connection with those already developed, her inexhaustible mines and minerals, her extensive manufactures and mills, her wealth in hardwood, her great amount of agricultural lands yet untouched by the settler, and her advantageous position with reference to consuming centers, a basis will be found upon which to predicate the future of the railroad interests in Michigan.

FREIGHT RATES.

The statute requires a report from this department as to whether a "classification of freight can be made, and if so, in what manner." The difficulties with which this matter was surrounded owing to imperfect data on file in the department as to the then schedules in force in the State, as well as the usual difficulties met by other states in an attempt to solve the question, made it a discouraging task. However, the legislature by resolution appointed a special committee to report a proper solution of the difficulties, the chairman of which committee, Hon. John F. Widoe, has kindly contributed to this report the result of the committee's investigation, and his conclusions therefrom and a method of solving the same, in the following article, entitled:

DISCRIMINATIONS.

The design of the writer is to treat fairly and impartially matters coming under this branch of the Railroad Commissioner's annual report to the Governor. I am aware of the fact that Michigan has done much for the railroads, and in return the railroads have done much for Michigan. The railroad has not only brought our people and their industries together, but has carried civilization into a wilderness, which but for railroad facilities, would have remained wild for a century to come. It has played a graceful and important part in the advancement of the commercial interests of our State, and contributed handsomely to the happiness and prosperity of our citizens; and I truly and sincerely feel that in discussing the theme of railroad discriminations we are not warranted in making indiscriminate attacks upon corporations of a railway character and importance.

What the public really needs, wants and must have, is a logical and fair maintenance of an efficient, safe and reasonable transportation service, with rates and classifications adjusted equitably and fairly; a rate that is remunerative for the railway, and legitimate and fair to the shipper, and an application of such rates and classifications that will insure the identical same rate to a shipper located at a producing point where there is no competitive line of railroad to consuming points, as to a shipper located at a producing point having competing line of railroad to consuming point. We must have tariffs and classifications absolutely free from discrimination in favor of any community, corporation, company or individual; a rate that is fair, and guarantees a profit to the railway; a rate that is a rate today, and tomorrow; a rate that is a rate year in and year out. Just how to reach this beautiful standard of excellence and put into force and honest effect a tariff rate of such model perfection, is the question that is today perplexing both statesmen and railway managements.

Discrimination, as defined by Webster, is "the arbitrary imposition of unequal tariffs for substantially the same service." Hence, a difference in a tariff or rate must necessarily be based upon a reasonable corresponding difference in the cost for service rendered; and when the rate charged is different and not so based, such rate or tariff is a discriminating one.

The statute of Michigan (Howell, 3355) referring to discriminations, embraces under the side heading "Discrimination in rates forbidden," the following:

"No railroad corporation shall in any manner discriminate in its rates of freight tariff, in favor of any individual, company, or corporation doing business over its line of road, and shall grant the same rights and privileges to all shippers, subject to the same rates and classification, without rebate or any other special privilege or rate not extended to all other shippers in the same class, who ship a like quantity or quantities. Any railroad corporation refusing to comply with any of the provisions of this section shall be liable to a penalty not exceeding five hundred dollars."

By the provisions of this section, it would appear that there is plenty of law for the punishment of wilful discriminators in the application of freight tariffs, rates and classifications. The objectionable provision in this section is, "who ship a like quantity or quantities." This provision has been, and is today, construed by railroad corporations as being an open and lawful permission to make special or lower rates to large ship-

pers,—wholesale shippers,—than to smaller shippers.

A great many of the more important grievances and complaints that came to the hands of the special railroad investigating committee of last winter were the direct product of this apparently discriminating provi-Wholesale rates, under this provision, were extended to large shippers in Michigan, and those favors by virtue of this provision were extended, and a lower or special rate made; and that, too, in my opinion, without discriminating intent. Naturally, smaller shippers would hear of these lower rates, and be prejudiced; and would insist that they were being wronged, and indiscriminately and unjustly dealt with. Attempts have been made to justify a statutory provision of this character upon the theory and practice among merchants, whereby they give better prices in wholesale than they do in retail dealings. On this point the courts have held that "the cases are not analogous, since the naming of a quantity of freight that shall be compared to wholesale purchase must necessarily be altogether arbitrary; and the duty of impartial service which railroad companies owe the public will preclude special discriminations being determined by arbitrary tests."

Ought "who ship alike quantity or quantities" be permitted to stand on our statute books? It certainly paves the way for favoring of large shippers and large capital engaged in manufacturing pursuits. It is a channel through which railroad corporations may accord special privileges to large shippers; and an open permit of this character will always (and rightfully, too) be construed as an unjust, unfair discrimination, if not an unlawful one. This provision certainly will admit of transactions that are contra to sound public policy, a violation of that principle of equality of rights guaranteed to every citizen, and must certainly if perpetuated, work a wrong and an injustice to every small

capitalist engaged in manufacturing industry.

The varied correspondence received last winter by the special railroad investigating committee of the legislature of 1896-7, embraced complaints along lines as follows:

Making better rates to large shippers than to small ones;

Excessive rates;

Discrimination in granting stop-over privileges on through billings; Stations located on competing lines of railroad receiving better facilities and rates than stations situated at non-competing points;

Rates for short haul excessive in proportion to rate for long haul;

Weights at initial station ought to control, etc.

I shall not attempt to treat in detail the various subjects complained of. I will say, however, that most of the complaints were based upon the complainants understanding of what was sufficient and good cause for grievance, and they sincerely felt that they were being discriminated against and unfairly treated by their railroad management. I am happy, however, to be able to say to you, at this time, that in the localities

where the more important violations and more serious complaints came from, that the railroad companies are now doing their best to accord

even, just and equitable treatment to all their patrons alike.

I am fully and thoroughly of the opinion that the legislature has the power to pass appropriate laws prohibiting railroad corporations from granting special favors to any shipper; to prohibit excessive charges, and prevent discrimination in freight rates, tariffs and classifications. I also appreciate, and realize the fact that it is commonly recognized as impracticable to regulate by an elaborate system of legislation the duties of railroad corporations to the State. The one great thing in the way that, in a degree, handicaps legislative regulations, is that too much legislation has been, and is, guided by a spirit, on the part of legislators, to make legislation of a general character, conform to and rotate around their own district; their own factory; their own town; their own railroad; their own mine; their own lake or work shop.

In considering a problem so broad, and covering such a varied and wide range of interest as the regulation of the freight traffic of a great State, when the general welfare of the country is to be considered, the interest of the many instead of the few to be legislated for, it behooves legislators to lay aside local prejudices, view the commercial interests of all, rise to the plane of a statesman in the noblest sense of that digni-

fied distinction.

In conclusion, and in the light of the many objections standing in the way of, and impeding a satisfactory regulation of freight traffic in Michigan by direct legislative provisions, let me recommend that you take under consideration the advisability of saying in your report to the Governor, that you favor the creation of a commission, to be known as "The Freight Tariff Rate and Classification Commission"; and ask the legislature to clothe said commission with such authority as would permit the exercise, through them, of the neccessary control over the railroad corporations of Michigan in the conduct of freight traffic rates and classifications, and the application thereof. Let the commission be composed of men who will have the successful promotion of the commercial interests of all at heart more than any personal political advancement, men with ability to aid and advise with the legislature for the construction of good sound business laws; laws based upon sound business logic and principle; laws that can be lived up to by all; laws that do not force railroad corporations to be law-breakers in order that they may maintain an existence. When this is accomplished the cry of "favored shipper" will die away; "unlawful discriminations," "excessive rates," "special favors," will be a thing of the past. Legislatures will be able to meet and do business. There will be no unremunerative railway tariffs or rates, no unjust or vicious shifting of classifications. All differences of this character would be wiped out, and made just, fair and equal. road would be permitted to enjoy business profits. The small wholesale shipper would enjoy, and have accorded him, the same rates and facilities as the large wholesale shipper. The agricultural localities having a local market with but one line of railroad, will have the same advantage and equal facilities and rates to consuming points as localities having local market where competition in railroad facilities exist. Small capitalists, engaged in manufacturing pursuits, will have the same advantage, and same rates in the transportation of their product to distributing centers as does the large capitalist.

I believe that the proper application of the State commission system, will prove an equitable and logical solution of the freight traffic problem.

JOHN F. WIDOE.

SEPARATION OF STEAM RAILWAYS AND PUBLIC HIGHWAYS AT CROSSINGS.

In view of the constant menace to the lives of persons, and to property at grade crossings,—as well to the property of the public as to that of railway companies, much interest has been manifested in many states of the union, and especially in the more densely populated eastern and northeastern states, in the subject of the separation of grades. The interest taken in the protection to lives and property at these crossings, has increased in proportion to the increase of the population, and to some extent to the casualties occuring thereat.

In 1893 the legislature of this State first manifested its interest in the subject matter by the passage of an act to provide separate grades for railroads and public highways and streets where railroads intersect such highways and streets. Some proceedings were instituted to separate certain grades in the city of Detroit under this act, but nothing has been accomplished except to determine the necessity therefor on one or two streets. This act was amended by act No. 143 of the session laws of 1895, and although two years have elapsed since its going into effect, no permanent results have been obtained.

NUMBER OF CROSSINGS IN MICHIGAN.

There are in the State of Michigan 8,112 crossings, 542 of which are protected by gates or flagmen, and 60, by electric or automatic signals; at 242 of them the grades have been separated voluntarily by the companies, leaving 7,268 of these crossings at grade and unprotected either by watchmen or gates.

The number of crossings is constantly increasing, both from the extension of railroads and by the improvement of hitherto unoccupied lands along the tracks of the different companies.

It is costing the railways of this State over \$250,000 per annum to protect 542 crossings out of a total of 8,112. Watchmen and gates are required largely in cities and densely populated communities.

Battle Creek has 15; Bay City, 20; Detroit, 103; Grand Rapids, 49; Kalamazoo, 26; Saginaw, 36; from which figures it will appear that nearly one-half of the watchmen stationed at crossings are required in the six cities named. It is safe, therefore, to presume that action for separation of grades should be begun in the cities of the State; and perhaps at its inception, a well-formulated and well-executed plan for the separation of grades should be confined to these localities.

The importance of this question as evidenced by the number of deaths and injuries at grade crossings, is demonstrated by a report upon the sub-

ject of deaths and accidents at grade crossings for a period of ten years, extending from 1887 to 1897. During that period there were killed at grade crossings, 187 persons, and there were injured at grade crossings, 193 persons. Statistics as to the amount of property destroyed at the crossings,—of the public and of the railroad companies—have not been kept; but it is apparent that the amount is not inconsiderable.

ADVANTAGE TO THE TRAVELING PUBLIC AND TO THE BAILBOAD COMPANIES.

By a separation of grades in cities, the general public would be greatly benefited by an increased speed of trains in going into the cities, now limited to from four to eight miles per hour by ordinances passed by the municipalities, and in most cases strictly enforced, with such limitations thereon as provided by the statutes of the State.

THE PRESENT ACT CUMBERSOME.

After a careful perusal of the law governing the subject of this State and upon consultation with parties interested in the separation of grades and after a comparison of the act with provisions upon the subject in other states, it will be found that our statute upon the subject is cumbersome, and that the proceedings to be taken thereunder are involved in much machinery that makes it difficult of execution, and as well very expensive to both the municipalities and the railway companies seeking the benefit thereof. The worst feature of the act seems to be that it can only be executed, according to its provisions, after an attempt has been made by a railroad company to agree with a municipality on the different matters involved in it, and in the separation of grades; and after failure to make such an agreement, the making of which, of necessity, consumes much time and much expense and much labor, then the municipality or twenty freeholders owning property upon the highway affected, may petition the Railroad and Street Crossing Board to take action. Owing to this defect, largely in the one or two attempts which have been made to separate grades within this State, nearly a year has been consumed in an attempt to make an ageement, and much valuable time has been lost. If the separation of grades at any point in Michigan is a public necessity, all hindrance to a speedy determination of all the questions involved should be removed, and the proper authority should act upon a petition presented by a municipality or by the residents upon a street affected, or by a railroad company.

EXPENSE OF SEPARATION.

The chief question involved in a separation of grades is the expense attendant upon it. Damages may be awarded to the abutting property owners damaged thereby; to the railroad company or the street railway company operating in the streets. Then, too, the question of the division of expense between the company or companies and the municipal-

ity is a matter that must be adjusted. The query has also arisen in many states, and been answered, as to what proportion of the expense, if any, should be borne by the state.

Of the sister states, the commonwealth of Massachusetts has undoubtedly obtained the most matured system and machinery. The Massachusetts act provides that the cost of construction shall be divided between the municipalities, the state, and the railroad company, in the following manner: Ten per cent thereof to be borne by the municipality; twenty-five per cent thereof, by the commonwealth, and sixty-five per cent, by the railroad company. Where the street crosses above the railroad tracks the expense of maintaining the structure below the street, is borne by the railroad company, and the expense of that portion of the structure used by the traveling public as a highway, is borne by the city. Under this law, passed in 1890, there had been expended in the state of Massachusetts up to the first day of January, 1897, \$6,147,923.09, of which the commonwealth had paid, \$1,536,980.77.

In most instances the railroad companies are first to seek the benefits of the act.

Whether this division of expense is equitable and just could be best submitted to the legislature, having in mind that no positive rule applicable to all localities should be adopted.

In many instances street railways occupy the streets and highways at the point where a separation of grades is sought. Under the present police regulations, the street railway companies are put to considerable expense, and to a loss of time in determining that it is absolutely safe for their cars to cross steam railroads.

It is also within the jurisdiction of the Commissioner of Railroads to order the street railway companies to put in safety devices at their intersection with steam railroads; and it has been the policy of the present administration of this department to require safety devices at all such points of intersection. It is therefore reasonable in a division of the expenses of separation of grades, to take into account the benefits arising therefrom to the street railways occupying the highways, and to cause them to bear a portion of the expense of the separation.

With a view to simplifying the law in this State upon the subject and introducing harmony into its provisions which now seems to be lacking, and as well to introduce into it the legislation of other states, based upon their wider experience, I submit herewith a proposed statute upon the subject to serve as a guide in securing positive and effective legislation with reference thereto.

AN ACT to provide separate grades for railroads and public highways and streets where railroads intersect such highways and streets.

SECTION 1. The People of the State of Michigan enact, That where any railroad crosses or shall hereafter cross any public street or highway, the separation of the grades at such crossing shall be accomplished under the provisions of this act.

It shall be lawful to accomplish the separation of grades at any public street or public highway in this State by agreement with the proper officers of the railroad company crossing said street, and which said

agreement shall be made between said company and the persons named in this section under the separate sub-divisions thereof.

- (a) Where said crossing is within the limits of any city by the common council of said city.
- (b) Where said crossing is within any county outside the limits of any city and upon any State or territorial road, by the board of supervisors of said county.
- (c) Where said crossing is within any county outside the limits of any city and upon any county road, by the board of commissioners of county roads, provided for in section forty-nine of article four of the constitution.
- (d) Where said crossing is within any township outside the limits of any city and upon any township road, by the township commissioner of highways.
- (e) Where said crossing is on the line between any city and the territory outside such city as follows:
- 1. Where the crossing is on a State or territorial road, by the joint action of the common council of the city and the board of county supervisors.
- 2. Where the crossing is on a county road, by the joint action of the common council of the city and the board of commissioners of county roads.
- 3. Where the crossing is on a township road, by the joint action of the common council of the city and the township commissioner of highways.
- (f) Where the crossing is on the line between two or more counties, or between two or more townships of the same county, by the joint action of the boards of county supervisors, boards of commissioners of county roads, or township commissioners of highways, according as the crossing is on a State or territorial road, a county road or a township road. Or judicial proceedings may be instituted to obtain such separation of grades in accordance with the provisions of section ten of this act. The words "representative board or officer," where occurring hereinafter, shall be understood to mean board or boards of supervisors, board or boards of commissioners of county roads, township commissioners or commissioners of highways, common council, or any two or more of them, as the case may be.
- SEC. 2. Such representative board or officer, as the case may be, may enter into an agreement with any railroad company or companies crossing any such street or highway providing for the separation of the grades at such crossing by carrying said street or highway either over or under said railroad at the point of intersection. Said agreement shall have attached thereto as a part thereof, an accurate profile and map of those portions of the street or highway and railroad or railroads of which the grade is to be changed according to said agreement and a plan showing the details of construction necessary for the separation of the grades at such crossing. Said agreement shall also provide for paying the cost of making and maintaining such separation of the grades and for the division of the total expense thereof between the parties to such agreement, and shall fix the amount of damages, if any, to be paid to said railroad company or companies as compensation for any injury to it or them resulting from said changes of grade, exclusive of the expense of con-

struction and maintenance above provided for: Provided, That no such agreement shall be enforceable until the damages referred to in section three of this act are fixed by judicial proceedings, or by compromise under said section three: Provided further, That no agreement made by a board of county supervisors, board of county commissioners of highways, or township highway commissioner which necessitates the borrowing or raising by tax of a greater sum by the county or township than such board or commissioner is authorized to raise, shall be enforceable until the authority to raise such excess has been duly given; nor shall any agreement made by a township commissioner of highways be valid until the same is approved by the township board: Provided, however, That the entering into said agreement or attempt to enter into the same by any party affected by the separation of said crossing, shall not be a condition precedent to the separation of said grades under the provisions of this act, or to an institution of proceedings to effect such separation.

SEC. 3. The mayor and common council of any city, the president and trustees of any village, a majority of the township board of any township within which a street, avenue or highway crosses or is to be crossed by a steam surface railroad at grade, or the president or general manager of any steam surface railroad company whose road crosses or is crossed by a street, avenue or highway at grade, may bring their petition in writing to the board created under the provisions of this act, therein alleging that public safety requires an alteration in the manner of such crossing, its approaches, the method of crossing, location of the highway or crossing, the closing of the highway crossing, the substitution of another therefor not at grade, or the removal of obstructions at the site of such crossing, and praying that the same may be ordered, and which said petition may also be filed by not less than twenty property owners upon said street; and upon the filing of said petition, as aforesaid, it shall be the duty of said board to proceed in such manner as they are directed in the provisions of this act.

SEC. 4. The Governor, within ten days after this act shall take effect, shall appoint, by and with the advice and consent of the Senate, two persons who, together with the Commissioner of Railroads, shall constitute a Railroad and Street Crossing Board. Said board shall have and keep their office at the office of the said Commissioner of Railroads. One of said persons so appointed and to be named shall hold office until the first day of January, in the year of our Lord, one thousand and until his successor is appointed and qualified. At the regular session of the legislature next thereafter and every two years thereafter, the Governor, by and with the advise and consent of the Senate, shall appoint one member of said board, who shall hold office for the term of four years from the first of January in the year of his appointment and until his successor is appointed and qualified.

SEC. 5. No person shall be appointed as a member of said board who is not a citizen of this State, and who, at the time of his appointment, is in any way connected with any railroad corporation, and who is directly or indirectly interested in any stock, bond or other property of, or is in the employ of any railroad corporation, and no person so appointed shall, during the term of his office, become interested in any stock, bond or other

property of any railroad company, or in any manner be employed by or connected with any railroad corporation.

SEC. 6. The Governor shall have power to remove for cause any such member, and appoint another to fill the vacancy at any time in his discretion, but the reasons for such removal shall be laid before the Senate at the next regular or special session of the legislature thereafter, and in case of a vacancy in the office of any such member, the Governor may appoint another person to fill the same.

SEC. 7. Before entering upon the duties of his office the person so appointed shall make, subscribe and file in the office of the Secretary of State, an oath of office in the form prescribed by section 1, article eighteen of the Constitution of this State, and shall enter into bonds with the people of the State of Michigan in the sum of ten thousand dollars, with sureties to be approved by the Governor conditioned upon the faithful performance of his duties.

SEC. 8. Each of said members, other than the Commissioner of Railroads, shall receive as compensation the sum of ten dollars for each and every day spent in the performance of his duties. He shall be reimbursed for all actual cash outlay for railroad and hotel fares, and other expenses incurred in the performance of his duties. His bills for services and expenses shall be audited by the Board of State Auditors and paid from the State Treasury.

SEC. 9. Upon filing the said petition metioned in section three of this act, and within five days thereafter, said board shall cause a notice of the filing thereof, together with a certified copy thereof to be served upon the mayor of the city affected by said petition or the president of any village, or the supervisor of any township, and upon the president or general manager of any railroad company whose road crosses or is crossed by the street, avenue or highway at grade, described in said petition. And where said highway is located between any two of the municipalities therein mentioned, then the same shall be served upon the representative officers herein named of said municipalities. Said notice accompanying copy of said petition aforesaid, shall also contain the notice of the time, and place of hearing of the said petition, which hearing shall be not less than twenty days from and after the time of the service thereof.

If the board or a majority thereof determine that a separation of grades is necessary, they shall determine whether the grade of said railroad or railroads shall be raised or lowered, and how much, and whether the grade of said street or highway shall be raised or lowered, and how much. And having determined the manner of making such separation as they or a majority of them shall deem best, they shall also estimate as near as may be and determine the cost and expense of doing and constructing the work. To assist said board in determining upon and making said plan, profile, map, estimates, and the report herein mentioned. they may employ an engineer and such clerical assistance as they may need. The expense of such employment shall be audited and paid upon the certificate of the president of said board, in the same manner as provided for their other expenses. They shall adopt a plan showing details of construction necessary for the separation of grades at such crossings by carrying such street or highway either over or under said railroad or railroads, as they or a majority of them shall deem best. They shall

make or cause to be made an accurate profile and map of those portions of the street or highway and railroad or railroads of which the grade is to be changed. They shall estimate as near as may be the cost and expense of doing and constructing the work to be done in a separation of said grades, and in the absence of statutory provisions governing the same, they shall determine the division of the cost and expense thereof, and what proportion thereof shall be borne by the city, county or township, the street railway or railways effected thereby, and the steam railroad or railroads affected thereby, and which report so made by them shall be signed by them or a majority thereof, and a copy thereof filed with the records of said board, and hereby directed to be kept in the office of the Commissioner of Railroads of this State; and copies thereof shall be served upon the railroad companies, street railway companies and municipalities affected by said report, in the same manner and form as is provided by law for the service of processes upon said parties.

SEC. 10. It shall be the duty of the corporation, municipality, person or persons upon whom said report of said board, together with decisions and recommendations accompanying the same, shall be served in accordance with the provisions of this act, to act upon said decisions and recommendations, and carry the same into effect under the provisions hereof, within thirty days after the service of a copy of said report and decisions as in the preceding section provided; and in case of either failure or neglect so to do, the board shall present the facts in the case to the Attorney General who shall thereupon take proceedings to compel obedience to the decisions and recommendations of said board, by mandamus or otherwise: Provided, however, that the institution of proceedings in accordance with the provisions of this act by one of the parties upon whom copy of said proceedings has been served, shall release all other parties so served as aforesaid from the duty to commence said proceedings enjoined upon them by the provisions of this section.

SEC. 11. It shall be the duty of the municipality served with said copy as aforesaid, through its city attorney or other legal advisor to forthwith prepare and file in the name of the county, township or city, in the court having jurisdiction in the proceedings, a petition signed by him in his official character, and duly verified by him, to which petition certified copies of the resolution, proceedings, determination, findings and recommendations of said Railroad and Street Crossing Board, shall be attached and annexed, and which certified copies shall be prima facie evidence of the action taken by said board or officers, and of the proceedings prior thereto, and of the regularity thereof. Said petition shall be filed in the circuit court for the county in which said highway or highways mentioned in the proceedings of said board is located: Provided, That in cities having a recorder's court proceedings shall be instituted and prosecuted in that court; and in cities having a superior court and no recorder's court, such proceedings shall be instituted and prosecuted in said superior court. The petition shall state that it is made and filed as commencement of judicial proceedings by the county, township or city, as the case may be in pursuance of this act, for the purpose of separating the grades of the street or highway and railroad or railroads at their intersection, designated by any proper descriptive words, in accordance with the plan set forth in said resolution, certificate or report, as the case may be, referring thereto, and for making just compensation to all persons sustaining damage thereby, shall give a description of the property abutting on that part of said street or highway of which the grade is to be changed, also a statement of the manner in which said property and any street railroad line on said street or highway will be affected by said change and to what extent, and shall state that said representative board or officer or said Railroad and Street Crossing Board, as the case may be, has declared it necessary for the public benefit, to make said separation of grades in accordance with the plan set forth in said resolution or certificate or in said report, as the case may be, shall contain the names of the railroad companies and street railroad companies to be affected by the proposed change, and of all persons interested as mortgagees, lessees, or otherwise in the property of such companies, of the owners and others interested in the property, abutting on that portion of said street or highway of which the grade is to be changed so far as the same can be ascertained, including those in possession of the premises, and in cases where the crossing is of a class embraced in clause (e) or (f) of section one of this act, the name of the city or of the county or counties, township or townships interested, other than the county or township in whose name the proceedings are taken, as the case may If the name of any person interested in any of the abutting property is unknown, the petition shall state the fact and the interest owned by such person or persons. All persons, corporations and bodies politic and corporate, so named in said petition, shall be made parties respondent in said petition. Said petition shall ask that a jury be summoned and empaneled to ascertain and determine whether it is necessary for the public benefit to make such separation of grades in accordance with said proposed plan and to ascertain and determine the just compensation to be made to the persons interested in said abutting property. And to assess the compensation, cost and expense by them awarded against the city and county or counties, township or townships, company or companies, as the case may be, that are parties to the proceedings, as provided by Upon receiving such petition, it shall be the duty of the clerk of said court to issue a summons against the respondents named in said petition, stating briefly the object of said petition and commanding them in the name of the people of the State of Michigan to appear before said court at a time and place to be named in said summons not less than twenty nor more than forty days from the date of the same, and show cause, if any they have, why the prayer of said petition should not be

SEC. 12. Said summons shall be served by the sheriff, under sheriff, or a deputy sheriff of the county, or in proceedings pending in the recorder's court or superior court of any city, by any member of the police force of such city, at least five days before the return day thereof upon all the respondents found within the county by exhibiting the original and delivering a copy thereof to each of them. If any respondent who is a resident of the county, cannot be found, the summons shall be served by leaving a copy thereof at his usual or last place of abode with some person of suitable age and discretion. If any minor or person of unsound mind is a respondent, service may be made on the guardian of such person, if there

be one, and if there is no guardian, the court may appoint some discreet and proper person to be guardian of such person in such proceedings; and such guardian shall have the authority to represent such person in such proceedings, and the proceedings to appoint such guardian shall be the same as provided in chapter two hundred four of the compiled laws of eighteen hundred seventy-one of the State of Michigan. If it shall appear on the return day of the summons that any respondent cannot be found within the county and has not been personally served, or is a nonresident, and such respondent has not voluntarily appeared, of if the name of any person interested is unknown, the court may make an order for the appearance of all respondents who have not been personally served and have not appeared, at a date not less than thirty days from the date of such order, and that service be made upon them by publishing a copy of such order, at least once in each week for three successive weeks, before the date set for said appearance, in a newspaper printed, published and circulated within the city or county as the case may be, and if there be no such paper, then in such paper as the court shall consider to be the most generally circulated within the city or county. Alias and pluries summons may be issued and the court may adjourn the proceedings from time to time as there shall be occasion and as in other civil cases. return of the officer upon the summons and an affidavit of due publication of the order for appearance, if any, shall be filed in the office of the clerk of the court before a jury shall be impaneled and such a return of personal service shall bind the respondents and unknown parties in interest and the property in which they are interested.

SEC. 13. On the return day of the summons or on some subsequent day to which the proceedings are adjourned, if no sufficient cause to the contrary has been shown, the court shall make an order that a jury shall be impaneled in the cause to ascertain and determine the necessity for the public benefit of separating the grades of said streets or highways, and of said railroad or railroads at their intersection, in accordance with said proposed plan, and to ascertain and determine the just compensation to be made therefor to the street railroad companies, if any, and persons interested in the abutting property made parties respondent to said petition, and to assess the costs and expenses by the act to be assessed as provided herein.

SEC. 14. Such jury shall be composed of twelve freeholders of the city or county, as the case may be, and shall be selected and impaneled as follows: The sheriff shall select at least twenty four persons, freeholders of said city or county, from whom a jury shall be impaneled in the cause, and the names of said twenty-four or more persons having been selected and returned by the sheriff, as directed by said order, the court shall thereupon cause such persons to be summoned by the usual process of venire to attend the court on a day to be named in said venire to serve as jurors, and the court shall then adjourn all further proceedings on said petition till the return day of said venire. Said venire shall be served by the sheriff or his deputy as in other like cases. On the return day of said venire, or on the day to which the proceedings may be adjourned, the court shall proceed to impanel a jury of twelve disinterested freeholders from persons so drawn and summoned. And if such jury cannot be found from the persons who shall attend upon such summons, or if so many of

the persons summoned shall be excused or shall be rejected by the court upon challenge or otherwise that there shall not be a sufficient number left to constitute a jury, the court shall order the sheriff of said county forthwith to summon immediately other freeholders of the said city or county to attend as jurors, until a panel of twelve qualified jurors shall be obtained. In impaneling a jury the practice and proceedings shall be the same as in ordinary civil suits so far as practicable. Four peremptory challenges shall be allowed to the petitioner, and the respondents who are the persons interested in the abutting property and any street railroad company shall collectively be entitled to the same number. If any juror, after being sworn, shall die or become unable to discharge his duties, the court may appoint another qualified person to serve in his place, who shall be sworn and take his place upon the jury, or may, in its discretion, impanel a new jury.

SEC. 15. The jury so impaneled shall be sworn or shall affirm that they will justly and impartially ascertain the necessity of separating the grades of said street or highway and of said railroad or railroads as proposed in said petition, and if they deem that such necessity exists that they will impartially ascertain and determine the compensation to be made to the parties respondent and unknown parties in interest named in said petition. The jury shall hear the proofs and allegations of the parties and the arguments of counsel and if so ordered by the court to go to the place of intended improvement, and in charge of an officer, and upon, or as near as practicable, to any property claimed to be damaged in making the same and examine the premises. They shall be instructed as to their duties and the law in the case by the court, and shall retire in charge of an officer and render their verdict in the same manner as on the trial of an ordinary civil case. The testimony given shall be reported, all objections made and the rulings of the court thereon, the exceptions taken being noted by the regular court stenographer and the charge of the court or instructions given to the jury shall likewise be reported by him. The jury shall report in writing as to each distinct parcel of land and as to each street railroad company claimed to be damaged and the interests in the same separately, and when all is finished, bring the report into court, and the same shall be filed with the clerk. A disagreement of the jury as to one or more distinct parcels of land shall not affect their report as to any lands in regard to which they have agreed, and upon such disagreement the court may upon motion of the petitioner, with a view to further proceedings, permit the petition to be so amended as therafter to relate only to the premises affected by such disagreement, and to the persons interested therein, and may also cause a new jury to be drawn and impaneled, which new jury shall be drawn and impaneled in the same manner as above provided for the drawing of the original jury, and like proceedings as above provided shall thereupon be had, as to the lands concerning which there was such failure to agree and such new proceedings may be ordered by the court as often as may be necessary. The court may allow the jury to take with them when they retire, proper descriptions of the land claimed to be damaged as well as maps of the same and of the premises adjacent thereto and showing the proposed improvement and such other papers as the court in its discretion may deem it proper for them to have, including forms of verdict containing

a description of the property and the names of the occupants or owners or other persons interested therein, and in which they may find necessary to make the proposed improvement as aforesaid, or may not find it necessary to make such improvements, such forms to be made under the direction of the court, or the verdict may be prepared by the jury. The verdict of the jury may be set aside by the court and a new trial ordered for objections of law and for matters of substance, but not for objections as to matters of form, and in the same manner and on the same ground as an ordinary civil action in courts of general jurisdiction. The court may, before the jury is finally discharged, refer their verdicts and findings back to them, for the correction of any errors, defects or insufficiencies therein contained. The verdict of the jury shall be in writing and shall be signed by them.

SEC. 16. The jury shall in their verdict ascertain and determine the necessity for the separation of the grades of said street or highway, and of said railroad or railroads, as proposed in said petition. And if they find that such necessity exists they shall then ascertain and determine the amount of damages to such property as may be damaged thereby, and also to any street railway so damaged and shall award to the parties interested compensation for such damages. If any property damaged shall be subject to a mortgage or lease, or to any lien or estate or interest otherwise arising, they shall apportion the compensation awarded among the parties interested therein as they shall deem just. In case the owner of any interest in any property damaged is unknown, they shall determine the compensation for damages to such interest and the same shall be paid into court for the benefit of such persons. They shall state separately the several amounts of damages by them awarded, and any apportionment of damages among different interests by them made. The amount of cost and expense which it would be just and equitable that the city. county or township should pay to said railroad company or companies, for the doing and construction of the work to be done by it or them, and determined by said crossing board and stated in their report as provided by said section nine, and the amount of cost and expense which it would be just and equitable that said company or companies should pay to the city, county or township for the work to be done or constructed by the city, county or township, and determined by said crossing board and stated in their said report shall be final and conclusive. And the said jury shall assess in their said verdict the total compensation by them awarded for damages for such property as may be damaged by such improvements to the parties interested therein and to any street railroad company, and also assess the amount determined by said report of the crossing board to be paid by said city, township or county, as its fair share of the expense of the work to be done by said railroad company or companies, when the crossing is within the limits of the petitioner, against the petitioner, and in all other cases against the city, and county or counties, township or townships, as the case may be, that are parties to the proceedings in equal shares. Said last mentioned amount to be assessed in favor of and to be paid to said railroad company or companies. And they shall likewise assess against the said railroad company or companies and in favor of and to be paid to said city, county or township the portion of the cost or expense, which it was determined by said crossing board

would be just and equitable, that said company or companies should pay to the petitioner or other body politic to whom the same are awarded in the report of said crossing board. Amendments either in form or substance may be allowed in any paper, petition, resolution, process, record or proceeding, or in the description of property damaged or claimed to be damaged or in the name of any person whether contained in the resolution or certificate of the representative board or officer, in the petition of property owners or in the report of railroad and street crossing board or elsewhere, wherever the amendment will not interfere with the substantial rights of the parties. Any such amendment may be made after, as well as before the order confirming the verdict of the jury. Motions for a new trial or to arrest proceedings shall be made within two days after the rendition of the verdict unless further time is allowed by the court. And if no such motion is made, or if being made, is overruled, the court shall enter an order confirming the verdict of the jury, containing a recital of the substance of the proceedings and a description of each parcel of real estate for damages to which compensation is awarded, with the statement of the interest of any unknown party therein, and the name of each railroad company, street railroad company, municipality, or other party in interest in the proceedings to whom compensation for damages is awarded or to whom any of said costs or expense may be awarded or against whom the payment of any sum by said jury may be charged or assessed, which order shall also direct by whom, to whom, and in what time the payment of the sums awarded is to be made and said order of confirmation, unless reversed by the supreme court, shall be final and conclusive as to all persons interested therein.

Any party to said proceedings, considering himself aggrieved, may appeal from the order of the court confirming the verdict of the jury, by filing with the clerk of the court a written notice of such appeal within five days of the confirmation, and within the same time serving a copy thereof upon the attorneys of the adverse parties, and filing a bond in said court, to be approved by the judge thereof, conditioned for the prosecution of said appeal, to judgment and payment of all costs, damages and expense that may be awarded against him in case the judgment of confirmation shall be affirmed. Such appeal shall be perfected within the same time and prosecuted in the same manner as appeals under the general act for taking private property for public use in cities and villages. In case of such an appeal the clerk of the court, on payment of his legal fees and charges, shall transmit to the supreme court a certified copy of the necessary files, records and proceedings in the case, and the judge of the court shall, at the request of the appellant, settle a case according to the usual practice of said court, showing the material evidence and instructions given to the jury bearing upon any disputed points to which exception is taken, and the objections, rulings and exceptions in the case, all of which shall be returned by said clerk as part of the records to the clerk of the supreme court.

SEC. 18. The said appeal may be brought on for a hearing at any term of the supreme court, and said court may affirm, or for any substantial error reverse the judgment, and may grant a new trial. The said court shall allow the prevailing party his reasonable costs and expenses to be taxed, and give judgment as in chancery appeals, and all costs, damages

and expenses awarded to the city, township or county, if it so elect, may be applied on or deducted from the compensation, if any to be paid, or execution may issue on the judgment. Damages may be awarded against

a party appealing without reasonable cause.

SEC. 19. The total compensation for damages and expenses, if fixed by agreement, esttlement or compromise, under the provisions of sections two and three of this act, or if fixed by a jury, such total compensation less the total amount assessed against the railroad company or companies as hereinbefore provided, shall be paid by the city, township or county in whose names the proceedings are instituted, except in cases where some city, county or township is a party respondent, in which case it shall be paid by the city and county or counties, township or townships that are parties to the proceedings, as the case may be, in equal shares. Any sum assessed against any railroad company, as hereinbefore provided, shall be paid by such company to the petitioner.

SEC. 20. When the verdict of the jury shall have been finally confirmed by the court, and the time in which to take an appeal has expired, or if an appeal is taken on the filing in the court below of a certified copy of the order of the supreme court affirming the judgment of confirmation, it shall be the duty of the clerk of the court to transmit to the common council of the city, when a city was a party to the proceedings, and to the county clerk of each county, and to the township clerk of each township that was a party to said proceedings, a certified copy of the verdict and of the judgment of confirmation, and of the judgment, if any, of affirmance; and thereupon the proper and necessary proceedings in due course shall be taken for the collection of the sum or

sums awarded by the jury.

SEC. 21. If the common council of any city which has been such party believe that either a portion of said city in the vicinity of the proposed separation of grades, or any street railroad company which owns or operates a line, any part of which is within said city, and which was a party to such proceedings, or both such portion of the city, and any such company or companies will be especially benefited by such separation, they may, by an entry in their minutes, provisionally determine that the whole or any just proportion of that part of the compensation awarded for damages and expenses which is apportioned to said city, shall be assessed upon the owners or occupants of real estate, or upon such company or companies, or upon both such portion of the city and such company or companies deemed to be thus benefited; and thereupon they shall, by resolution, provisionally determine the district or portion of the city benefited, if any, and the amount to be assessed upon the owners or occupants of real estate therein, or upon said company or companies or upon both. The assessment district and the amount to be assessed having been thus provisionally determined, said common council shall fix a date for the hearing of persons objecting to the constitution of said assessment district, and to the amount to be assessed, and to the assessment of said company or companies, and shall cause a notice to be published once in each week, immediately preceding said hearing, for three successive weeks in a newspaper printed, published and circulated in the said city, or if there be no such paper, then in such newspaper printed and published in the State as said board shall deem to

be most generally circulated in said city, which notice shall be substantially as follows: To (stating the name of all owners and occupants of real estate in said assessment district so far as known) and to all other persons owning and occupying or otherwise interested in the following described real estate (giving the description of all real estate in said district), and to (giving the names of the street railroad companies to be assessed, if any), you are hereby notified that the sum of dollars is the proportion of the amount of compensation awarded in consequence of the separation of grades of the street (or highway and railroad or railroads or any of these as the case may be) to be made at the intersection of (describing the intersecting street or highway and railroad or railroads by their names and in appropriate language) provisionally determined by the (giving name of the common council) to be assessed upon the above described real estate which has been provisionally constituted an assessment district therefor (upon said street railroad companies, naming them, or upon both said companies and said real estate, as the case may be). You will be given opportunity at the meeting of (giving name of said common council) to be held on to show cause, if any there be, why any of the above described real estate should not be included in said assessment district, or (why said companies should not be assessed, or both, as the case may be), and why the amount to be assessed should not be fixed at the sum above stated.

Signed—(name of presiding officer of said common council).

SEC. 22. It shall be the duty of the clerk of the court in which said issue shall have been tried, to send a certificate to the county treasurer or city treasurer of the city or county wherein said proceedings were instituted, as the case may be, of the total expenses to be borne by said municipality in and about the separation of said grades as aforesaid, and the amount of which sums so reported as aforesaid, shall be levied, assessed and collected at the same time, and in the same manner, as general personal taxes are or may be collected, and shall, when collected by the proper collecting officers, be paid over to the treasurer of the city, county or township by which said proceedings were instituted, as the case may be, by whom it shall be placed to the credit of the fund created for the payment of the compensation on account of the changes of grade provided for. That it shall not be obligatory upon said municipality's authorities, or any of them, to pay said sum heretofore mentioned, out of the general fund, but the sum may be assessed upon the district benefited by said improvement and separation of grades in the same manner and form, and by the same authority as is established by law governing the said municipality for the determining of districts benefited by public improvement.

SEC. 23. The assessment roll containing said assessments on a city district, when ratified and confirmed by the common council, shall be prima facie evidence of the regularity and legality of all proceedings prior thereto and up to and including said confirmation, and all assessments therein contained shall be and continue a lien on the premises against which the same are assessed, until payment thereof. Such part of the compensation apportioned as above provided, to any city for payment as is not raised in the manner hereinbefore provided, and all that part of the compensation which is apportioned, as above provided, to

any county or township, shall be assessed, levied and collected on all taxable property of said city, county or township, as the case may be, in the same manner as general taxes are assessed and collected.

SEC. 24. The making of said separation of grades, whether in any railroad or in any street or highway, and of all other changes necessary to carry out the plan set forth in the resolution or certificate provided for by section three, or in the report provided for in section nine, shall not be postponed or delayed on account of the non-payment of any of the sums so awarded as compensation, nor shall the payment of any of the sums so awarded as compensation be a condition precedent to the mak-

ing of any said changes to carry out the said plan.

SEC. 25. All changes of grades in any railroad or railroads, and all changes in said railroad or railroads consequent on said separation of grades, shall be made and carried out by the municipality made a party to said proceedings. When, according to said plan of separation of grades, the street or highway will cross the railroad by an overhead bridge, the framework of that part of said bridge within the side lines of the right of way and all abutments and supports sustaining that part of said bridge, shall be built, maintained and kept in repair by the railroad company, or, where such bridge crosses the right of way of more than one railroad company, by said companies. When, according to said plan of separation of grades, the street or highway will pass under a railroad or railroads, the railroad bridge, its abutments and the sustaining walls along the highway within the side lines of its own right of way shall be built, maintained and kept in repair by each railroad company. The surface and approaches of such bridge over which the street or highway passes, and such public way under such railroad or railroads, and the approaches thereto, shall be constructed, maintained and kept in repair by the township, county or city within which the same are situate, or, in the case of line crossings, by the joint action and under the joint supervision of the representative board or officer of the county or township, and of the persons or bodies in whom, by the charter of the city, the power to contract for and supervise the pavements of streets is vested, as the case may be. The expense of all work to be done by any railroad shall be paid by said railroad, or in case work is to be done by two or more railroads jointly, the expense shall be shared equally among them. The expense of all work to be done by any city, county or township, shall be paid by such city, county or township, or in case work is to be done by a city and county or counties, township or townships, jointly, the expense shall be shared equally among them. Such expense imposed on any city, county or township shall be provided for by taxation in like manner as its other expenses are provided for.

SEC. 26. Said order of confirmation shall, after reciting the substance of the verdict, and declaring the same confirmed, provide that the several amounts therein assessed against the railroad company or companies, and the several bodies politic and corporate, who are parties to the proceedings, shall be paid by them respectively within one year from the date of final confirmation, and that the change or changes of grade found to be necessary by said verdict, shall be made by the parties on whom the duty of making them respectively is imposed, within such reasonable time as the court shall in said order determine, not exceeding

one year from the date of said order. Such judgment shall have the force and effect of a decree in chancery and may be enforced by the court making the same, in any manner provided for the enforcement of chancery decrees.

SEC. 27. The officers, jurors and witnesses in any proceedings under this act shall be entitled to receive from the city, county or township instituting the proceedings, the same fees and compensation as are provided by law for similar services in an ordinary action at law in the circuit courts of the State.

SEC. 28. All the expenses and costs of proceedings under this act incurred by any municipality, county or township instituting the same, shall be paid out of the general fund, highway fund, or the fund provided for such purposes, as the case may be. It shall be lawful for the judge in any case to order the payment, by the city, county or township instituting the proceedings, to any respondent, of such reasonable attorney fee as he may deem just, not exceeding twenty-five dollars, which may be taxed with the other costs.

SEC. 29. It shall not be necessary, in any proceedings under this act, to give evidence in making out the prima facie case, of the party instituting the proceedings, of the ownership of interest of any of the respondents in any of the lands described in said petition as damaged or affected by said changes of grades, but the averments of said petition as to such matters shall, unless evidence is put in by the respondents contradictory thereof, be taken as true.

SEC. 30. In the city of Detroit, the city counselor or other officer who may be the head of the legal department of said city, shall perform the duties required by this act to be performed by the city attorney, and wherever the term city attorney shall be used herein, it shall as to and in said city be deemed to mean the city counselor or other head of the legal department.

CONCERNING STATE SUPERVISION OF ELECTRIC BAILWAYS.

By different enactments of the State legislature, limited control of certain matters connected with the supervisory control of street railway companies has been given to this department. It now has definite power to define the manner and form of crossings made by street railways over and through the tracks of steam railroads. It has the power to regulate the manner and form in which the wires of a street railway company shall be constructed over the right of way and tracks of a steam railroad company. Both of the powers conferred by the legislation above mentioned, have been executed by this department with reasonable activity as a portion of its well-defined duties. Under the first power, the department has caused safety appliances in the way of derailing devices to be placed at many dangerous points in the State, and is completing its labor of investigating all crossings of steam railroads by electric railways, with a view to having safety devices installed at all such crossings. Under the second power above mentioned, all trolley and other wires of street railway companies at the point of crossing steam railroads, are now constructed under specifications furnished by this department, and are being complied with in a substantial manner. Constant

surveillance by frequent inspections is kept over this branch of the department's duties, and no accidents during the past year have occurred from defective wires at these points. No objection has been met with on the part of the street railway companies subject to our jurisdiction to this extent, all orders heretofore made having been promptly obeyed.

ADDITIONAL LEGISLATION.

The last legislature, through provisions of act No. 102 of the public acts of 1897, sought to give this department supervisory control of corporations organized and operated under what is known as the "General Street Railway Act." The act seems to be adequate for that purpose under the provisions for the control of street railways doing suburban express business, and no others. The difficulties presented by this enactment are three fold: First, The act is uncertain as to the jurisdiction sought to be conferred by it, by its terms being doubtful as to whether the department has any jurisdiction over roads carrying freight and passengers, but not doing suburban express business in the technical sense of that term; Second, All corporations doing an express, freight and suburban passenger business, are not organized and doing business under the provisions of the law amended by said act No. 102, as some are organized under what is known as the "Train Railway Law," thus limiting the jurisdiction of the department to a few of such street railways as are organized and doing business under the street railway law above referred to; Third, Under the organic law of this department, provision has been made for the conduct thereof as to the matter of expense with a view to the supervision and control of steam railroads only; and therefore, no funds have been provided for the full and complete supervisory control of street railways, even if that control was absolute and beyond the question of doubt to the extent specified.

In connection with the last proposition, it goes without argument that the subject of electricity and its use in the transportation business is a specialty, requiring expert knowledge for a safe and proper regulation thereof; and the department could not safely and properly interfere with the management and supervisory control of such properties without the aid of competent assistants versed in the business. expense in which this would involve the department would not be great, as in all other respects except so far as the use of electricity is concerned, the business of these companies is kindred with that of steam railroads, and the rules and regulations adopted under the supervisory control of the one, would apply in the majority of cases in the super-

visory control of the other.

NECESSITY FOR THE EXERCISE OF POLICE POWER OVER ELECTRIC RAILWAYS.

The police powers of the State over electric railways are, of course, similar to its powers over all quasi public corporations, but in the case of these corporations have not been exercised except to the limited extent hereinbefore mentioned. There has been an indifferent attempt in some cities, by ordinance, or otherwise, to regulate them; but the power has been exercised indifferently, generally being reserved for the board of aldermen granting the franchises, without the employment of experts or others persons whose immediate business it has been to make anything like regular investigations or inspections. Probably on account of the expense which would be attached thereto and made burdensome to all municipalities except one or two of the larger ones in the State. Even though the municipality exercises the power, it would still be objectionable, on account of a lack of uniformity of rules and regulations which would obtain in different parts of the State, and upon systems extending beyond the boundaries of the city limits, where the power, if exercised, would be by a different municipality and different authority.

The necessity for State supervision, by which these corporations would be brought under uniform rules established by a competent department, is easily established by a record of accidents and catastrophies occurring upon some of the interurban roads of the State during the current year, a descriptive list of which is herewith given; the cause of the accident being apparent from the situation existing at the point of accident, and the manner of its occurrence.

On July 7, 1897, a car on the Inter Urban Railway, in operation between Bay City and Saginaw, plunged into the Saginaw river while the drawbridge across the river was open. The result of the accident was the death of eight persons and injuries resulting to others. Safety appliances at the bridge would have prevented the accident, authority to order which was not then vested in this department.

On August 18, a car operated upon the Bay Cities Consolidated Railway collided with a Grand Trunk switching train on Center avenue in West Bay City, entirely demolishing the street car and injuring the motorman; other injuries were only prevented by the absence of persons that could be injured.

On October 29, a car on the Inter Urban Railway collided with a Flint & Pere Marquette switching train at Brown's spur near Mershon, during a heavy fog. No injuries resulted from the collision.

On November 29, a car on the Inter Urban Railway ran through and over the safety devices ordered by this department on the tracks of the Michigan Central Railroad crossing at Zilwaukee a distance of 70 feet after it lost its electric current, obstructing the track on the steam railroad and Inter Urban road at that point for twelve hours.

On December 4, two cars on the Oakland Railway, operating between Detroit and Pontiac, coming from opposite directions, at nearly if not quite full speed, collided at Birmingham, instantly killing three persons, fatally injuring two, and injuring a large number of others. The cause of this accident is now under investigation by this department, but will probably be completed too late for the present report.

In view of the above accidents and of the investigations made by this department at other points in the State where similar or other accidents are likely to occur, I desire to make the following recommendations as to the authority to be given this department, if deemed expedient, through the force of the general law applying to street railways generally without reference to the act under which they are incorporated:

(a) The department should have authority to regulate the speed of cars, limiting those to low rate of speed that do not have suitable weight and are not properly constructed for that purpose;

(b) The department should be authorized to insist upon the use of standard motors and cars, with a view to obtaining the greatest safety

for the traveling public;

(c) It should have the power to require pilots or fenders, and sufficient air, power or track breaks where the situation requires them;

(d) On extensive systems the department should have the power to regulate the manner of operating trains upon single tracks, by requiring a system of train dispatching or other safety regulation;

(e) It should advise and consult with the companies with reference to the amount of training required of motormen and conductors for the

safe management of this class of transportation;

(f) It should have the power to require safety appliances at crossings of other street railways, as well as railroads.

These are the principal duties which should devolve upon the department in any new enactment by the legislature upon the subject, to which others may be added, if the law is made general in its provisions.

This class of rapid transit provided by these companies has been and will continue to be of vast benefit to the traveling public. And it is not considered by this department that it is desirable to limit the speed of trains upon these lines to the least extent, but rather encourage an increase thereof, having in view, however, the safety of the traveling public.

In closing this subject, permit me to suggest that owing to the present financial condition of this class of companies, the State would be much aided in a speedy submission to its orders, if these companies were limited in the amount of bonded indebtedness which they might place upon their property, thereby increasing their fixed charges and lessening the funds necessary for the proper maintenance of their properties.

INTERCHANGEABLE MILEAGE BOOKS.

During the present year the railroads constituting the voluntary association, known as the Central Passenger Association, has issued a thousand-mile ticket upon the following conditions, among others:

The original cost of the ticket to be \$30.

2. The book itself not good for transportation, but only for the purpose of obtaining transportation; evidenced by trip tickets to be issued upon the presentation of the book for redemption.

3. Transportation for a continuous passage over more than one line of railroad cannot be obtained upon it, nor can baggage be checked beyond the point of the line issuing trip ticket.

4. After the company has redeemed the book by issuing trip tickets equal to the book's mileage, the holder receives a rebate of ten dollars.

The book became unpopular from the date of its issue, the objectionable features being the delay at stations in obtaining the trip ticket, the inconvenience of obtaining a new trip ticket on a continuous journey over more than one system, and, as well, the inconvenience of rechecking baggage on the same trip.

From ex parte information received at this department it is claimed that this mileage book was issued as the result of negotiations with certain members of the commercial travelers' organization of the State. Both the railroads and the men whom the ticket was designed to please are disappointed, and active measures are now being taken to bring about changes in its form and its use.

In connection with this subject, I desire to call your attention to the 9th subdivision of section 3322 of Howell's Annotated Statutes of the State of Michigan, the portion of the section bearing on the subject being as follows: "One thousand mile tickets shall be kept for sale at the principal ticket offices of all railroad companies in this State, or carrying on business partly within and without the limits of this State at a price not exceeding \$20 in the lower peninsula and \$25 in the upper peninsula. Such one thousand mile tickets may be made non-transferable and, whenever required by the purchaser, they shall be issued in the names of the purchaser, his wife and children, designating name of each on such ticket, etc."

It is apparent that the mileage book above named is issued in violation of the above statute, the validity of which has just been established by a decision of the Supreme Court of the State of Michigan. While a majority of the roads are issuing the above ticket as well as the one adopted by the Central Passenger Association, some of them are violating the provisions of the law and for this violation no reasonable excuse is offered. A condition exists therefore with reference to this matter unparalleled in the history of the State. The companies exact from the State, and justly so, the service of the constabulary thereof in the protection of their property, an obedience to the requirements of any statute passed for their benefit, as well as an obedience to rules and regulations adopted by themselves. With a boldness rarely heard of outside of criminal circles some of them are violating this statute without apology or excuse. I therefore recommend that in the absence of a penalty in the statute itself, the matter be referred to the Attorney General, and in view of the enormity of the offense committed, that proceedings be taken for the annullment of the charters of such companies as persist in the violation of the law.

The names of the companies and the extent of the violations by them are now being obtained by this department and will be submitted to you in due time. While the remedy suggested may, at first sight, appear to you as too radical, especially as it may disturb to an extent the value of securities issued by the offending company, yet upon reflection I think you will conclude with this department that the remedy proposed is not more radical than the violation of the law is flagrant.

REPORTS AND RECOMMENDATIONS

AFFECTING PHYSICAL CONDITION OF ROADS

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PHYSICAL CONDITION OF MICHIGAN RAILROADS.

I herewith submit a report of the physical and mechanical status of the railroads in Michigan, as per record of special and regular inspections prior to and including October 31, 1897.

PERMANENT WAY.

Nearly all the railroad companies continue to purchase heavier steel rails. The "rail section" has been much improved, and the usual weight per yard of rails used in renewal is from 67 to 80 pounds.

In laying new rails the question of expansion and contraction has been the subject of attention and experiment, allowances being made with special reference to the nature of the soil, whether continually filled with water or free from moisture, whether line is shaded or subjected to the hot sun, or the nature of the subsoil as to solidity.

Many companies now consider it important to note the variations in different sections of road in making adjustment at rail joints, rather than the usual custom of allowance for highest and lowest temperatures only.

Some of the larger systems are utilizing worn steel by sawing off the ends of rails, matching it with regard to length and previous wear and laying it with trussed or supported joints.

Worn rail thus treated makes very good track, several portions inspected that have been in service two years showing very satisfactory results.

TIES.

This very important item is receiving close attention on the part of all companies. Some of the large systems in the southern portion of the State use ties of white oak exclusively, while the majority of roads use cedar and hemlock on tangents with oak in curves. Cedar is rapidly coming into favor as the best and most economical timber for ties that is available in this State, especially on the lighter traffic lines, and when used with tie plates is considered equal to oak in durability and safety for heavy traffic roads. The condition of the ties on the various roads is very satisfactory as compared with previous years.

BALLAST.

The amount of ballast provided and put in track on most of the roads has been comparatively small and insufficient during the past season. This has been on account of retrenchment in expense of operation chiefly, though it is generally conceded that it is false economy. The importance of good ballast, upholding ties from clay or subsoil and giving easy drainage cannot be overestimated. Gravel and cinders constitute the material for ballast in the order named.

SURFACE AND ALIGNMENT OF TRACK.

It is noted that aside from the main traffic lines of the large systems the general condition of track surface and alignment is not as good as on former inspections. This is due to lack of ballast and to insufficiency of track force, many cases being noted where two or three men, including foreman, have care of six miles of track besides contiguous sidings. Safety to the traveling public largely depends upon the standard of track and maintenance of same, and it is a positive conclusion that a road allowed to run down in track details is an expensive one to operate. Retrenchment in other branches of service would be better. The various duties expected of the limited track force on some of the roads is surprising and almost incredible. On one occasion it was noted that upon a section of six miles with two men composing the gang, one was flagging in a dangerous locality, while the other was assisting in replacing a broken rail. It is perhaps needless to say that the department has directed its efforts toward a better track service than above mentioned.

A great improvement is noted in the elevation and alignment of curves. The practice of adjusting curves by old rules upon which trackmasters differed materially, has given way to scientific formula, relining and spiraling the curves by instrument and adjusting the elevation to the highest speed required.

It is held that the safety of passengers is most important and curves should at all times be adjusted for the maximum speed and not for the average speed required for mixed traffic.

SWITCHES AND FROGS.

Stub switches are being rapidly replaced by split point switches on nearly all roads in the State. The split point switch requires competent care and inspection and gives good satisfaction. Rigid switch stands are taking precedence over the automatic or spring type for main track switches, it being conceded by practical experience that they are more positive and safer. Some of the roads use reinforced points and find them very satisfactory, the number of parts being lessened, greater strength obtained and less trouble experienced in maintenance.

The item of blocking frogs, guard rails and switches is very important. Nearly all the railroad companies pay particular attention to filling all angles with blocking made of wood. Wooden blocking is troublesome to keep in place, decays quickly, and when not properly kept in position there is no less liability to accident than without any blocking. Some states have condemned blocking made of wood, prohibited its use and stipulated the use of metal for the purpose. Accidents to employés by boing caught in rail angles have been very few during the period under report.

BRIDGES.

The bridge structures in the State are generally efficient. Very few renewals of important bridges have been made during the year, the improvements being in way of reducing or entirely filling the bridges with earth embankment or in temporary repair. A large number of inspections of bridges and track openings have been made, in several cases specific orders issued for renewal or repair, and on all bridges where the factor of safety is in doubt trains are run at reduced rates of speed, and the structures are under constant surveillance until repairs or renewals are completed.

The item of guard rails on bridge floors to guide the wheels of derailed trains is not receiving the attention desired for safety by many roads in the State. Many companies do not consider this precaution necessary, while others consider it of great importance. I am convinced that in the interest of public safety guard rails should be provided on every bridge opening over 12 feet in length. They should be constructed of steel not less than 60 pounds to yard bolted, with angle bars, firmly spiked in position with ends on approaches to bridge depressed so as to prevent brake beams or broken parts of cars or engines from catching ends of rails and thereby increasing the danger.

INTERLOCKING SWITCHES AND SIGNALS.

The general condition of the interlocking switch and signal systems at railroad crossings and junctions has been much improved during the past year. There are 101 of these appliances that have been ordered by the Board of Railroad Crossings, Commissioner of Railroads, or put in by mutual consent of the companies in interest. Of this number all are in serviceable condition except four; three are in process of repair or renewal, and orders for the renewal of one are withheld pending negotiations for changes in crossing.

The details of operation of these appliances, as stipulated in official orders of approval, are generally complied with, except that the limit of speed specified is generally exceeded, and in some instances speed of fast trains is not decreased while passing interlocked crossings. I urge that distant signals at interlocked crossings on main traffic routes where fast time is required should be electrically locked, so as to prevent any interference with the machine until the entire train is over the crossing.

The expense of electrically locked levers operating derailers or signals, is inconsiderable as compared with the factor of safety obtained when large and heavy passenger trains are run over interlocked crossings at a high rate of speed. It is very important that there should be a reform in the observance of rules of all railroad companies in this matter, which are made in compliance with orders of approvals of these appliances, by this department, on all high speed routes, if electric locks are not provided as outlined above.

The Board of Railroad Crossings have ordered 16 switch and signal systems during 1897 at crossings of new lines, which are not included in the number previously given. One of these has been finished and approved, and the others are in process of construction. Four are full interlocking systems at crossings of main lines, twelve are half-interlockers at crossings of secondary tracks, spurs or sidings by main traffic lines.

It has been recommended to the board by this department that all new crossings of secondary or switching tracks by main lines should be provided with half-interlocking machines to be operated by trainmen on switching tracks. The importance of this action lies in the fact that in foggy or stormy weather signals on gates at crossings are inadequate, especially when high speed is required on the main lines. This recommendation was indorsed by the Crossing Board and all orders approving crossings issued in compliance therewith. During the year there have been no derailments at interlocked crossings involving casualties or excessive damages.

RAILROAD AND STREET RAILWAY CROSSINGS.

The subject of adequate protection against accident from collision at this class of grade crossings has received considerable attention; all crossings have been inspected by this department, and mechanical devices ordered at several of the more dangerous ones, while at others, investigations are pending regarding the necessities and nature of appliances to be provided.

There are two methods of mechanical protection that have been adopted for use at this class of crossings. One is a half-interlocking machine with derailers and signals on street railway tracks, signals on steam railroads properly placed according to varying conditions, which are manipulated by levers properly interlocked so that conflicting signals cannot be given and operated by a joint employé from a tower at crossing who may also operate gates for street protection.

The other method consists of derailers placed in electric railway tracks which are connected with levers placed near crossing at best point of vision of approaching trains on steam tracks and to be operated by conductor of electric car after it has been stopped at derailing switch.

The former method is necessary and gives good satisfaction at crossings where there are many tracks, where the traffic is heavy and where movements over the crossing are very frequent.

The latter method has proved satisfactory on single and light traffic crossings. Signals are sometimes necessary when this form of appliance-

is used, to be placed on steam tracks and interlocked with derailers, if view of approaching trains is obscured.

At the inspections of this class of crossings made on July 22, 23 and 24, 1897, 14 crossings of this character in this State were found on which some form of mechanical protection was recommended. These recommendations were made upon consideration of three points, viz.: 1st, the amount of traffic over crossings on each line; 2nd, the customary speed of trains on steam roads; 3d, the obstruction to view of approaching steam trains.

In considering the conditions named, protection was recommended only at crossings where it was absolutely necessary, and where the protection afforded to the companies operating electric lines as well as the measure of safety assured to the traveling public, would be entirely consistent with the expense incurred in the installation of the necessary appliances.

PROTECTION AT DRAWBRIDGES.

The investigation of the disaster on the Inter Urban Railway near South Bay City on July 7, 1897, caused by an electric car plunging through an open draw into Saginaw river, resulting in the death of eight persons and many serious injuries, was made by me through the mechanical engineer of the department on July 8. The report thereof leads to a positive conclusion that adequate mechanical protection at all points where railways cross drawbridges is an imperative necessity. A scheme to properly protect trains or cars against accident at these points is entirely feasible from a mechanical standpoint, and will be economical to the railway companies in operation, and will protect their property interests, as well as assure safety to the traveling public. appliances provided, properly designed, and approved by this department would dispense with the necessity of trains or cars being brought to a full stop before crossing drawbridges; allowing them to proceed under restricted speed when route and signals are properly set for them. I submit that legislation providing authority to dictate said devices at all drawbridges in this State is an urgent necessity.

EQUIPMENT.

The general status of motive power, passenger coaches and freight cars, has been much improved during the past year.

Larger and heavier locomotives, equipped with all modern safety appliances, have been purchased or built by a number of companies operating railroads in this State.

The requirements of law relative to standard height of draw-bars from the rail and the application of grip-irons to freight cars have been complied with. Considerable progress has been made in the equipment of freight cars with automatic couplers and air brakes, as evidenced by reports to this department, though none of the companies have fully complied with the national law that all such cars should be so equipped before January 1, 1898.

I herewith give a table showing number of freight cars owned by each company; number equipped with automatic couplers and air brakes, also number equipped with couplers during the present year to and including October 1st, 1897:

Railroads.	Freight - cars owned, number.	Freight cars equip- ped with automatic couplers, number.	Percent- age of cars equipped with automatic couplers.	Freight cars equip- ped with air brakes, number.	Percent- age of freight cars equip- ped with air brakes.	Freight cars equip- ped with air brakes during period under re- port.
Ann Arbor	1,805	1,186	65.70	728	40.22	
Chicago & Grand Trunk System.	1,290	350	27.18	309	20.81	262
Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paul.	12 27,523	19,165	69.63	13,408	48.71	4,689
Chicago & Northwestern	35,017 2,668 1,042	30,523 1,928 355	87. 72. 84.	22,453 351	64. 13.	5,228 450 110
Detroit, Grand Rapids & Western System	1,218	880	71.	13	1.	450
Detroit & Mackinac	488 8,078 3,395 3,130 277	207 1,061 1,141 2,160 100	43. 34. 34. 69. 36.	160 627 6 787	83. 20. 25.	29 818 889
Lake Shore & Michigan Southern System	18,841 5 3	18,720	99. 83.	18,513	71.	2,208
Michigan Central System	10,848	7,963	78.	3,651	38.	. 1,846
Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising	183 6,057 261	2,089 200	84 . 76 .	1,325 200	22. 76.	1,142
Milwaukee, Benton Harbor & Columbus. Wisconsin & Michigan. Wabash	22 578 496	7 578 190	32. 100. 38.	7 10 88	32. 2. 19.	30
Total	119,298	88,804	74.	57,686	48.	17,146

HIGHWAY CROSSING ALARM BELLS.

This method of street or highway crossing protection is coming into extensive use in this State.

There are 60 crossings protected by this system, 43 by automatic alarms and 17 that are controlled manually by signalmen stationed at adjacent crossings or interlockings. These alarm bells are actuated or controlled by electric or pneumatic power, the former almost exclusively, either as the power for operating the alarm or controlling the automatic features of the appliances. The effect and practical utility of this class of signals would be much greater if more competent care and supervision were given them. The attached statement of failures is not, in my opinion, due so much to defects in the different types of alarm bells as to neglect in providing competent care and maintenance.

During the fiscal year ending June 30, 1897, the automatic alarms were out of service from breakage or failure of mechanism 3,795 hours,

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CAR FERRY "ANN ARBOR No. 1"

or a percentage of 88.25 hours at each crossing during that period. These figures are taken from daily reports of inspection submitted to this department, and it is noted that there were seven crossings that were thus protected where the service was continuous.

I am of the opinion that with proper construction and care in maintenance this method of protection is adequate at a certain class of crossings.

SIGNS AND WHISTLING POSTS.

A large number of highway crossing signs were found to be weather beaten and the inscriptions thereon hardly discernible. In every case is was promised that the old crossing signs should be renewed at once. On several roads highway crossing signs were noticed with letters smaller than the standard required by law in this State. All renewals will be made with letters 12 inches in height.

At the request of several locomotive engineers the matter of whistling posts to designate point at which whistle should be blown for highway crossings was taken up for consideration. The following roads were noted as without such posts: Michigan Central Railroad, Flint & Pere Marquette Railroad, Detroit & Mackinac Railway, Saginaw, Tuscola & Huron Railroad. The Mechanical Engineer made a report thereon and submitted the following: "On a number of railroads in this State whistling posts have not been provided and placed to indicate distance from highway crossings at which whistle must be blown as required by law.

"The consideration of the matter has been brought to my attention by engineers who, while they do not make specific complaint, claim that whistling posts properly placed would materially help them in the strict

observance of the law.

"It is held that in foggy or heavy weather, either rain or snow, when necessity for whistle signals is greatest, and the absence of landmarks owing to similarity in the surface of surrounding country, it is almost impossible to blow whistle at proper distance from crossing; instances being common when the whistle would be blown too far away and repeated, or when the wing fences would come in view, which would not be over 100 feet from crossing.

"Further, that whistling posts act as a prompter when the attention of the engineer is momentarily attracted by other duties, and that the common view of posts set for this purpose stimulates positive action in this important duty.

"From practical experience I consider these arguments reasonable

and worth serious consideration.

"I therefore recommend that railroad companies that have not placed whistling posts to indicate where signals should be blown, should be required to provide them.

"Owing to the increased speed of trains since the law was passed; I suggest sixty rods as a proper distance to place the posts from the

crossing."

Upon the presentation of this report to the railroad companies above named, it was mutually agreed that the whistling posts should be provided at once and placed as recommended without an official order from this department.

BLOCK SIGNALING.

The practice of blocking trains by a system of signals which permits only one train in certain limits at the same time is becoming general on some of the roads in this State.

On a number of single track lines a permissive system of blocking is used, allowing trains to follow after a preceding train has passed into a block a certain time limit. On others a positive block of trains is made by operators using station or other fixed signals manually controlled and operated.

AUTOMATIC BLOCK SIGNALING.

Realizing the importance of automatic block signaling on heavy traffic lines, especially on double tracks, I herewith submit a practical description of the different types, with approximate cost of installation and maintenance.

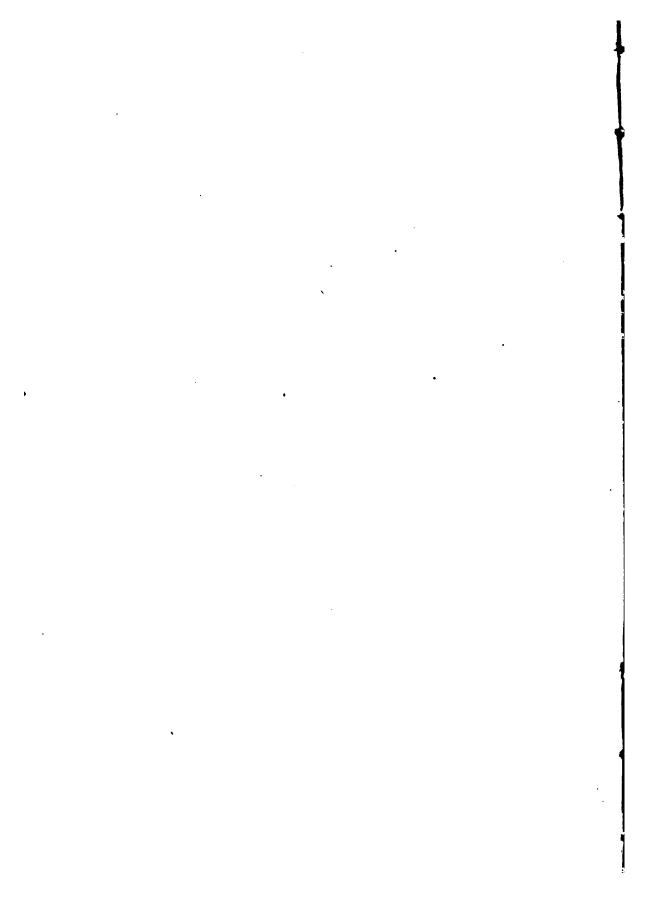
The automatic block signal system, which has been developed within the last few years, is now recognized as a system of exceptional merit for the safe and rapid handling of trains, with no cost for operation, and a reasonable cost for maintenance. With this system the signals are actuated by trains and controlled and operated by electric, pneumatic, or other agency. Pneumatic power is used only for operating the semaphore type of signal, but electricity is extensively used, both as the power for operating the signals and as the controlling power in connection with the automatic features of the system. This system is used extensively on double track by several of the leading roads of this country, over sixty miles of double track blocking being in service on the M. C. R. R. in this State. On this road the average length of the blocks is two miles, the blocks being shortened at terminal points and yards. In general the lengths of the blocks are determined by the volume of traffic and local conditions, such as yards, grades, curves, etc.

In order to provide against a train overrunning a block signal and colliding with a train which might be standing a short distance within the block, either caution signals are placed from 2,000 to 2,500 feet in advance of their respective block signals and indicate their position, or the clearance points of the signals are so placed that a block signal will not clear until the rear end of a train has passed 2,000 or 2,500 feet beyond the next signal.

There are practically only two types of automatic signals as regards the track controlling devices, which devices, with their controlling circuits, constitute the automatic feature of this system. These types are respectively the track instrument, and the track circuit types. Electricity is almost universally employed as the controlling power for each type on account of its reliability and its adaptability to the purposes required.

In the former system, instruments of suitable design are placed alongside of the track at the beginning and end of each block, a lever extending from the instrument to the outside rail of the track and so placed as to be depressed by the wheels of a passing train. The depressing of the lever of the instrument by a train at the entrance end of the block opens a spring in the track instrument, which breaks the circuit of

"PERE MARQUETTE" CROSSING LAKE MICHIGAN



the signal controlling relay, the latter in turn cutting off the power that holds the signal in the clear position and allows the signal to assume the danger position by gravity, in which position it will remain until the train passes over the clearing instrument placed at the outgoing end of the block. The operation of the latter instrument closes the controlling circuit and restores the power which clears the signal.

With the "permissive" system of blocking, which permits of a train passing a danger signal, after waiting a certain length of time, and entering a block at slow speed, when the block is already occupied by a preceding train, intermediate instruments, between the set and clear instruments, are used to prevent the first train clearing the signal upon passing out of the block and leaving the second train unprotected. The clearing instrument is so constructed as to hold the circuit of the signal controlling relay open until the rear end of the train has passed the instrument. When caution signals are not used, the clearing instrument, for a signal, is placed far enough within the block beyond the next signal so as to provide the same measure of safety as is provided by the caution signal.

TRACK CIRCUIT SYSTEM.

The essential feature of the track circuit system is the utilizing of the rails of the track as the medium for the flow of the current which operates the signal controlling relays. The track of the block is divided into two or more subdivisions, low voltage battery being placed at one end of each subdivision and a relay at the other end. The rails at the ends of the subdivisions are insulated from each other by means of wooden splice bars and the insertion of fibre and posts between rail ends. All of the rail joints between the ends of subdivisions are bonded so as to assure an uninterrupted flow of the current. It is necessary to divide the track of a block into at least two sections, in order that, where caution signals are used, the section between the caution signal and its block signal will control the former, or where the overlap system is employed, in lieu of the caution signal, the first section of a block, which is the overlap section, must control both the signal at the entrance to the block and the signal of the preceding block as well. In blocks 11 miles long, or over, the track is divided into three or more sections, as the conditions require, in order that in wet weather there will not be so much loss of current as to prevent working the track relays.

Each one of the track relays of a block controls the operating power of the signal directly, or by means of auxiliary relays and circuits. The first pair of wheels of a train upon entering a block will set the signal to danger by means of opening the points of a track relay. The wheels and axles of a truck having practically no resistance to the flow of current, provide an easier path for the flow of the track battery current than does the track relay which has at least four ohms resistance, in consequence of which the current, instead of going through the track relay, returns to battery by means of the wheels and axle of the truck; the track relay being robbed of its current, allows the armature to drop, cuts off the signal operating power and the signal goes to danger.

In either the track instrument of the track circuit system the circuits are so arranged that any interruption of the flow of the current cuts off



the power which holds the signal in the clear position and allows same to go to danger by gravity.

All switches leading into, or in the main tracks, are so connected with the block system that the opening of a switch 1 inch or over, sets to dan-

ger the signal of the block in which such switch is located.

With the track circuit system, indicators are placed at all main track switches and are used to indicate or announce the approach of a train by the display of a red disc or the ringing of a bell. When a train closely approaches, or is inside of block in which a switch is located, a visible or audible indication is given of the approach of such train, which indication is a warning against the opening of a switch until the train has passed or a clear indication is shown. With this system, a car occupying any portion of the main track, or standing on the side track fouling the main track, or a broken rail in the main track, will hold the signal at danger. Should several trains occupy a block it would be impossible for the signal to clear until the last train had left the block. same safeguards cannot be obtained with the track instrument system. a train breaking in two and leaving the rear portion in a block, the first portion upon passing out of the block will clear the signal and leave the rear end unprotected. A car fouling main track, and a broken rail in the main track have no control of the signal in the latter system. Both systems are about equally reliable as regards the unusual display of danger signals due to defects in the system. It therefore follows that the track circuit system, which offers the greatest degree of protection, with equally reliable operation, is preferable, and warranted the railroads in adopting it for all recent applications.

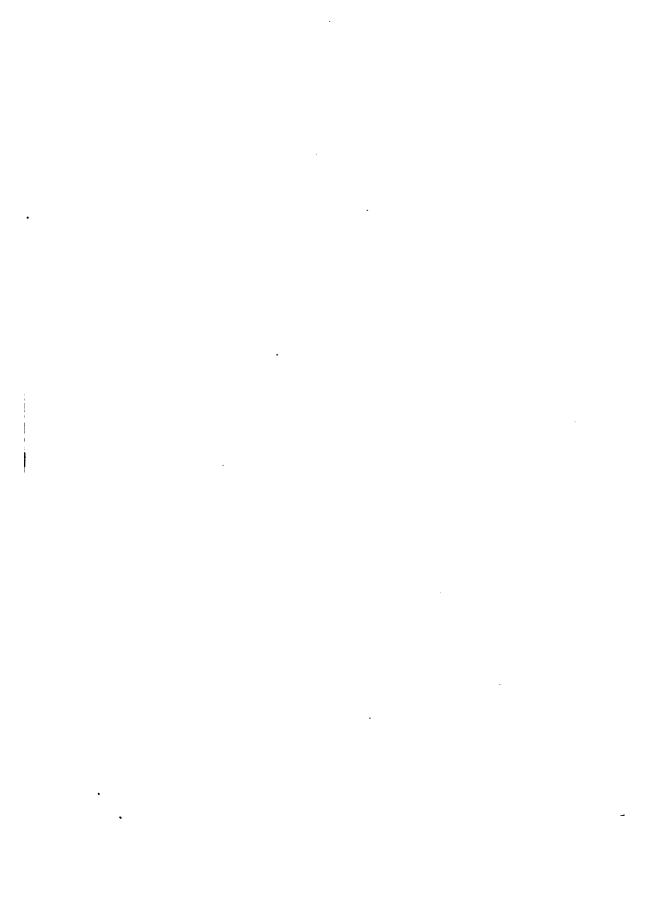
The cost per mile of the double track, for the installation of the track circuit system of automatic block signals is from \$1,000 to \$1,500, depending on the length of the blocks, number of switches, and the type of signal used.

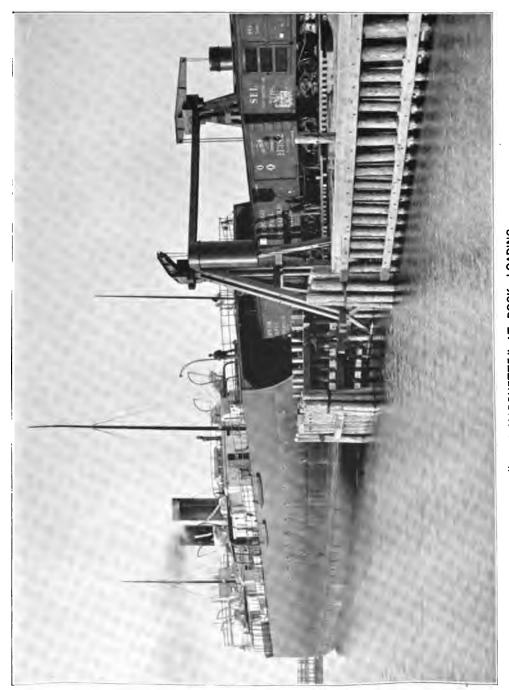
The cost of maintenance which is affected by the same conditions as for installation, is from \$155 to \$165 per mile of double track.

Automatic signals are used very little on single track. The fact that it is not considered feasible to use the absolute system of blocking with automatic signals on account of the seriousness of the delays which would be caused when signals stand at danger through the failure of battery, etc., and the further fact that it has been deemed necessary to employ the absolute system to prevent "head on" collisions, has discouraged their use.

It is apparently practicable to use the permissive system of automatic block signals on single track for the safe operation of trains moving in the same direction, while at the same time some immunity can be secured from the danger of "head on" collisions. The dispatchers, being relieved of the duty of spacing trains which are going in the same direction, can more easily and safely handle meeting trains. Experience may teach that single track automatic signaling, operated under permissive rules, is as safe and expeditious a method of handling trains as the lock and block system of manually operated and controlled blocking, while being the cheaper system to operate and maintain.

The above information, given in technical language, is designed more particularly to aid such companies in Michigan as are intending to adopt





"PERE MARQUETTE" AT DOCK, LOADING

new and improved signal systems, and as well to those which may hereafter be required to adopt the same, there being one or more points in Michigan where the adoption of this system seems to be absolutely necessary to secure the public safety.

CAR FERRIES.

In addition to the activity in building new and additional lines of railroad within the State, a new field of transportation has rapidly been developing by means of car ferries used for the transportation of cars with their contents across the great lakes surrounding the State, and chiefly across Lake Michigan.

Three of the most important lines of the State are now seeking to increase their business and facilities through the transportation of products over their lines from and to the west and northwest, viz., the Ann Arbor Railroad, the Flint & Pere Marquette Railroad, and Detroit, Grand Rapids & Western Railway. What is known as the "Big 4 System" also has a car ferry in operation from Benton Harbor to Chicago,

Milwaukee, and other lake ports.

Just what influence, by way of increased business, this project in railroading will have upon the earnings and conditions of the roads engaged therein, must, owing to imperfect data and to the business being a new venture, be left to subsequent reports. The corporations engaged therein are very hopeful of its future, and some of them, at least, claim that the successful operation of this class of business will, in the very near future, result in a change of the character of their roads from "merely local roads" to through trunk and freight line roads, and make them as profitable as any of the companies now doing a through freight and passenger business.

This method of transportation materially reduces the distance necessary to haul freight and passengers between distant points from and to the west and northwest, and by competition with all-rail routes will no doubt materially reduce freight charges on the products of the west and northwest, as well as on the products of the mines, mills and fac-

tories from the east and south to the west and northwest.

The experience of the companies that have car ferries, especially upon Lake Michigan during the last winter, has been that little or no hindrance has been experienced either from the ice formation or on account of the inclement weather. The steamers or boats used are of necessity very large and bulky, and are provided with ice crushers and other appliances for overcoming difficulties usually experienced in navigating the lakes during the winter.

The cuts, descriptions and specifications of the Pere Marquette, the largest car ferry on the lakes, operated by the F. & P. M. R. Company, which are given herewith, show the general idea of the car ferry business, with data as to general plan and construction.

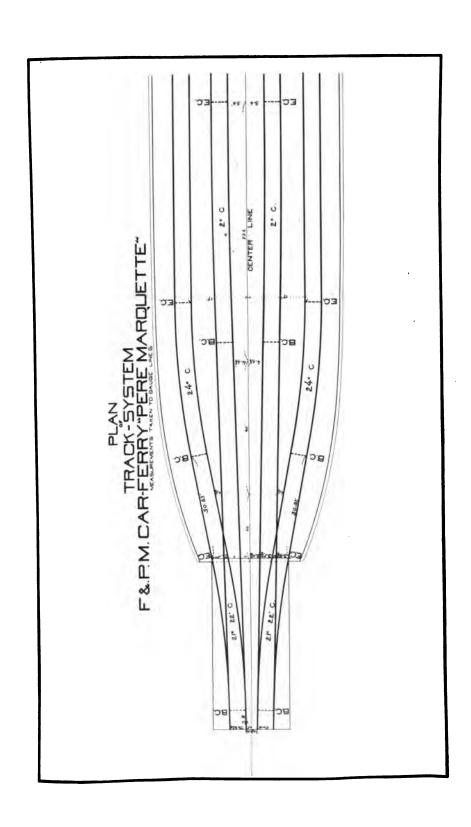
THE CAR FERRY "PERE MARQUETTE."

The car ferry Pere Marquette was put into service on Lake Michigan between Ludington, Mich., and Manitowoc, Wis., on February 14th, 1897, and has since been making regular trips. Was built expressly for this route at F. W. Wheeler & Co.'s ship yards, West Bay City, Mich., for the Flint & Pere Marquette Railroad Company, and is a steel twin-

screw vessel of 350 feet in length overall, by 56 feet beam, with a moulded depth of 19 feet 6 inches to the main deck, which extends the full length of the vessel; above the spar deck are two substantial deckhouses for the accommodation of passengers and crew. Has four railroad tracks on the main deck to accommodate 30 standard freight cars. Especial consideration has been given to the question of strength in this vessel, so that it can with certainty be said that in the matter of weights and distribution of materials, she is the strongest steel vessel on the great lakes. The main frames are of steel channels 12 inches deep, backed up with keelsons and stringers from 4 to 6 feet apart, and at the load water line is a regular deck stringer with beams every 8 feet strongly bracketed above and below. The main sheerstrake is doubled, as is also the bow plating for a length of 60 feet; and aft, the hull is built out so as to enclose the propeller shafts and dispense with brackets or other extraneous fittings that might be liable to injury from ice. The entire construction, including the decks, is of mild steel, carefully inspected and tested to the highest requirements. The vessel is divided below the main deck into seven compartments by six watertight bulkheads, the extreme forward and aft compartments being further subdivided by a water-tight flat at the level of the water line. so that in the event of any bottom injury, the vessel would remain afloat with any one of the main compartments flooded. The propelling machinery consists of two sets of compound, vertical, direct-acting, jet condensing engines, each entirely independent of the other, having cylinders 27 inches and 56 inches diameter with a 36-inch stroke, capable of developing a maximum of 3,500 indicated horse-power, and calculated to propel the vessel at a speed of 15 miles per hour. The working part of the machinery, such as shafting and rods, have been made from 10 to 25 per cent heavier than ordinary marine practice, and the propellers, which are of cast steel of the sectional type, are also unusually heavy. Steam is supplied by four boilers, built by Wickes Brothers of Saginaw, Mich., of the single ended "Scotch" type, each 15 feet 3 inches diameter by 12 feet long, constructed for a working pressure of 130 pounds steam. In the matter of equipment, the best modern practice has been adopted, so as to insure this vessel being of the highest character in all particulars. This includes a combined hand and steam steering gear; "Providence" steam capstan windlass; stockless anchors housed in hawes pipes; four steam deck warping capstans; steam fire pumps and bilge pumps, and twelve life boats. Has a complete electric light installation, including search light. The model of the vessel has been designed to suit winter navigation, and care has been taken to insure that she shall be safe and seaworthy in every particular.

It is obvious that there is a growing necessity for a standard plan of tracks on boats and docks, height of same and size of slips, in the interest of interchange of traffic. With the possible magnitude of this method of transportation it will be found as essential to the interests of railroad companies and shippers to construct ferries and slip docks in a manner permitting interchange of business, as to have standard gauge of railroad track.

So much importance, in my opinion, attaches to this necessity that I recommend legislative action on the subject.





INTERRUPTION TO NAVIGATION AT THE PRINCIPAL PORTS IN WESTERN MICHIGAN USED OR TO BE USED BY CAR FERRIES.

As bearing upon the subject of car ferries I herewith submit information upon the condition of navigation during the winter months at the ports of Grand Haven, Frankfort, Muskegon and Ludington, furnished by the Honorable George A. Farr, Collector of Customs for the Western District of Michigan.

In reading these statistics it should be borne in mind that Ludington became a winter port January 1st, 1894; Frankfort and Muskegon February 18th, 1895, while Grand Haven has been a winter port for

ten years and upwards.

Interruptions to navigation have occurred at the above mentioned ports, during the months of January, February and March, as follows:

GRAND HAVEN.

1888. February 4 to 13 and 16 to 20.

1889. February 19 to 26.

1890. No interruptions.

1891. No interruptions.

1892. No interruptions.

1893. February 7 to 14, 15 to 21, 22 to 27.

1894. February 20 to 25. 1895. No interruptions.

1895. No interruptions. 1896. February 17 to 25.

1897. No interruptions.

FRANKFORT.

1895. March 7 to 11, 21 to 24, 25 to 27.

1896. January 1 to 6, 18 to 21; February 9 to 12, 17 to 24; March 5 to 9, 23 to 27.

1897. No interruptions.

MUSKEGON.

1895. February 18 to 21, 22 to 28; March 2 to 5, 6 to 11.

1896. January 1 to 6; February 10 to 13, 17 to 22, 28 to March 4.

1897. January 15 to 18, 24 to 28; February 22 to 26, 26 to March 1; March 25 to 30.

LUDINGTON.

1894. February 4 to 7, 16 to 19.

1895. January 19 to 23, 28 to February 6; February 6 to 13.

1896. No interruptions.

1897. No interruptions.

EXTRACTS FROM REPORTS OF ANNUAL INSPECTIONS REQUIRED BY LAW.

Owing to the extent of the mileage of railroads in Michigan, the department has been hampered in making such a careful and detailed inspection of the railroads of the State as desired. While much benefit arises from an inspection by going over the roads in an observation car, yet the experience of the department in that line leads to the conclusion that facilities can now be obtained for a much better and more detailed and thorough inspection, especially so far as the same relates to culverts and bridges, and as well the general physical condition of the road and tracks. To accomplish this end the organic law of this department should be changed and the State purchase for its use a standard inspection car, to be operated by steam or other motive power. The railroad company whose properties are to be inspected should be required to give a right of way to the car over its tracks upon the request of the Commissioner of Railroads, and the same should be subjected to the train despatching service of the company; and the company should also furnish it with such attendants on the part of its employés as would make such operation upon its line safe and convenient. To make a complete inspection, this car should be manned by men competent to inspect the track and track structures, and as well by a man competent to inspect bridges and other structures.

I submit the above recommendations for such consideration as you may deem advisable to give them.

DEPARTMENT ORDERS.

So far as practicable, without application, and in all cases where applications for hearing have been filed, this department has only made its decision after a full and complete hearing of all complaints, and in most cases after an inspection of the situation complained of.

Experience, as well as the evident justice of this course, has produced most satisfactory results in obtaining a ready compliance with the orders of the department on the part of the railroad, street railway, telegraph and telephone companies, all of whom are to a greater or less extent under the jurisdiction of this department. Such compliance has very much facilitated its work and has saved it much time which otherwise would be taken up with needless correspondence and perhaps

the spending of considerable time in the courts in enforcing the penalties of the statutes.

I am pleased to report that not to exceed seven orders of the department so far as it has information, remain uncomplied with, out of the number presented elsewhere in this report. Of these, three are against railroad companies and the balance against telephone and electric railway companies.

The penalties of the statute for non-compliance with these orders have not been enforced at the date of this report because the breach thereof has but just occurred. They will be taken up at once, and the right of the State to exercise its police power in each instance contested in the courts, if necessary.

ANN ARBOR BAILBOAD.

A special inspection of this line, made early in July, showed fair general conditions.

Track and bridges good, except structure at Manistee river one mile north of Sherman, upon which necessary repairs were specified by this department and promptly made. Four bridges have been rebuilt, 408 feet of large iron pipe used in replacing two box culverts, in very high embankments, at Yuma and Sherman.

Amount of material used in filling, 70,000 cubic yards.

Four stations rebuilt, balance in serviceable condition. One hundred twelve thousand six hundred and fifty-five new ties have been used in renewal, and 250 tons of new steel, 70 pounds to the yard, has been laid.

This work has been done between January 1st and October 1st, 1897. Extensive improvements are in progress on terminal facilities at Frankfort; 3 miles of new track have been laid in yards at this point; a large warehouse and considerable new dockage provided.

The right of way fences along the line were found to be in bad shape, but a large amount has been built or repaired, and it is promised that the entire line shall be properly fenced at an early date.

Subsequent inspections have developed that this property has been generally improved during the year.

AU SABLE AND NORTHWESTERN RAILROAD.

This road is a narrow gauge, 74 miles in length, and does very little general traffic business, being used principally for transportation of logs and forest products.

One mixed train is provided each way daily for public traffic, and road bed and track is found in fairly good condition.

Train equipment for public service is provided with safety appliances required by law.

The attention of this company was called to the absence of blocking for frogs and switch angles, and immediate attention was given to the

Thirty-five thousand new ties have been used in the track during the year.

GRAND TRUNK SYSTEM-WESTERN DIVISION.

This system comprises all lines operated by the Grand Trunk Railway west of St. Clair Tunnel, viz.: Chicago & Grand Trunk Railway, Port Huron to Chicago; D., G. H. & M. Ry., Detroit to Grand Haven; C. S. & M. R. R., West Bay City to Durand; T. S. & M. Ry., Ashley to Muskegon; Michigan Air Line Ry., Lenox to Jackson; and Chicago, Detroit & Canada Grand Trunk Junction Ry., Port Huron to Detroit, amounting to main line mileage in Michigan of 633.47 miles.

The C. & G. T. Ry. has the distinction of doing the heaviest businessover a single track of any of the trunk lines in the State. The permanent way, track and equipment is in an excellent condition. All safety appliances required by law or used in modern practice are pro-

vided, and the road is managed by very competent officers.

The D., G. H. & M. Ry. is found in good, satisfactory condition. One of the oldest lines in the State, its reputation for good road-bed, equipment and service is maintained. New freight division terminal facilities with round house and yard are being constructed at Durand, which will also be used as eastern terminal of T. S. & M. division.

The T. S. & M. and Air Line divisions, on account of the light traffic carried, have not been so well maintained as the rest of the system, though considerable attention has been given to repairs of bridges and track on these divisions, and they are not in a dangerous condition; considerable renewal and repair will be required during the coming year.

The interlocking and signaling systems on entire line are efficiently

maintained.

The station facilities at some of the junction points where passenger transfer business is heavy, have been found to be inadequate, notably at Durand. Plans are being matured for the construction of a new passenger depot at this and other points where necessities require.

Frogs, guard rails and switches were found blocked as required by

law.

CHICAGO, KALAMAZOO AND SAGINAW.

This road extends from Kalamazoo to Woodbury, a distance of 45 miles, and is in a good and serviceable condition.

The track is in good shape, a large number of ties having been used for renewal during the past year.

The train equipment and rolling stock are in fair condition, although no automatic couplers are furnished on freight cars.

Three hundred feet of culverts and bridges have been filled with earth during the present year.

No whistling posts for crossings are provided on this line.

CHICAGO, MILWAUKEE AND ST. PAUL RAILROAD.

Inspected September 23d, 1897.

The line from Champion to Iron Mountain is in good condition, the steel and maintenance of track being excellent and entirely adequate for the fast passenger service afforded.

The line from Channing to Ontonagon is not in good condition, surface and alignment being not as good as noted in former reports of inspection.

It was represented by Superintendent Minturn that this was owing to an unprecedented wet season, and an unusually heavy log traffic carried.

This portion of the track is well tied and equal to the requirements in point of safety.

The Sidnaw trestle (the largest in the State) will be dispensed with during the coming year, a new line being constructed across the basin, composed entirely of earth embankment, with a large culvert.

The interlocking appliances at Wabik, Republic and Sidnaw are found in good, serviceable condition. It was mutually agreed that the practice of allowing trains to stand inside derailed limits at Sidnaw while opposing route was in use, should be discontinued at once.

With reference to complaints by persons in Ontonagon and vicinity of insufficient train service, a number of leading citizens of Ontonagon were interviewed and the expression was unanimous that it would be unreasonable to urge or make issue that a train service exclusively for passengers, baggage and express should be provided under present conditions, but that a service as at present maintained should be afforded daily, except Sundays.

CHICAGO & NORTHWESTERN.

The inspection of this line in Michigan was made September 21 and 22. The track structures, ties and steel on this line are first-class, and surface and alignment are well maintained. The main line of the Peninsula Division, Menominee to Ishpeming, is in especially good condition. The reconstruction of this line in this State, according to the general standards of this company is nearly completed, and very little fault can be found with its condition.

A target was recommended to signal trains over crossing of the D. S. S. & A. Ry. west of Negaunee, and was at once provided.

The motive power and train equipment is good, and first-class service is afforded. Two hundred and twenty-four thousand one hundred and fifty-five new ties were used in renewal in this State, and a large number of bridges rebuilt or repaired.

The blocking of frogs and other rail angles has secured proper attention.

CHICAGO & WEST MICHIGAN AND DETROIT, GRAND RAPIDS & WESTERN.

These roads are under the same general management, and are virtually operated as one system. The track on main lines and branches is uniformly first-class, particular attention being given to surface, alignment and proper drainage.

A total of 408,767 ties were used in renewal; 2,864 tons of new steel, 70 pounds to yard, laid in track; 30 bridges and culverts filled, comprising 1,925 linear feet and requiring 4,400 cubic yards of earth, during the present year to October 1.

The fence renewals comprise 4.02 miles of new fence and 24.34 miles rebuilt during the same period.

Bridges and track structures are in good condition, and well maintained.

The station buildings are generally adequate and comfortable, though many were noted that should be renewed in the near future.

The motive power and equipment of these companies compare favorably with any in the State, and the service and management of the entire properties is very satisfactory to this department.

CINCINNATI, JACKSON & MACKINAW BAILWAY.

This road was turned over to the Detroit, Toledo & Milwaukee Railway Company on August 1st, 1897.

An inspection of the entire property from Dundee to Allegan, which was made about this time, developed the fact that the surface and alignment of track, and the condition of bridges, was faulty in many places.

The track is generally in need of ballast, and several bridges were found to be weakened by decayed piling and timbers. These points of defect were taken up with the company in detail, and while no considerable amount of ballast has been provided this year, on account of more necessary work, the dangerous structures have been strengthened or are in process of repair.

No switch lights were found on main line switches west of Addison.
Interlocking machinery at the various interlocked crossings was found in good condition.

The general train equipment is good.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS BAILWAY.

This road in Michigan extends from Benton Harbor to State line, near Grangers, and is found in good condition.

The status of the track and bridges has been improved during the year, and equipment of service on this line is satisfactory.

A large number of complaints of insufficient right of way fence have been received, and in each instance the fence complained of has been repaired as soon as possible.

We are assured that the cause for these complaints will be soon removed and sufficient fence built along the entire line in this State.

DETROIT AND MACKINAC.

The inspection of this road was finished September 4th, and the general condition of the track, bridges and equipment show a decided improvement over previous reports. Nearly the entire main line north of Emery Junction (137 miles) has been reballasted, and a number of important bridges repaired and 1,550 tons of new rails laid in the track. This includes nine miles of new extension on the north end of the line.

The track and bridges on the Rose City branch found to be in a faulty condition, it being considered that the present state of the track

and structures would not warrant with safety to passengers and property the running of trains at the customary high rate of speed. Therefore, instructions were given from this department to reduce the speed of trains until necessary repairs should be made. Whistling posts for highway crossings are being placed to denote the point at which whistle signals shall be blown.

The motive power, coaches and other passenger train equipments are satisfactory, and equipped with all safety appliances required by law. Freight cars are being supplied with automatic couplers and air brakes.

DULUTH, SOUTH SHORE & ATLANTIC.

Inspection made September 17, 18 and 20, 1897.

The condition of the track on the entire system is satisfactory; ties, steel and surface and alignment of track are good.

The station buildings are in poor condition generally, it being represented by the general manager that it had been considered in the best interest of the traveling public and property to use nearly all available money in maintenance of track and permanent way.

The station buildings at Seney, Munising Junction and Michigamme were found to be particularly inadequate for the public convenience and comfort, and on the 8th day of November, 1897, an order was issued requiring reasonable depot and warehouse buildings to be constructed at these points within ninety days from date thereof. The company proceeded at once in compliance with these orders at Munising Junction, but asked a rehearing regarding the other two points named. This was granted, and the matter will be decided at an early date.

Four large bridge structures were found in an unsafe condition, on account of the amount of decayed timber, rendering their strength uncertain. Orders were issued October 9th directing the company to renew or fill these bridges within one year from date of order. Service of these orders was acknowledged with assurance that they would be complied with. An order was also issued requiring a target signal at crossing of Chicago & North Western Railway one-half mile west of Negaunee, which has been complied with.

The Mineral Range Railroad, and Hancock & Calumet Railroad, which are under the same general management, were inspected September 18, 1897.

The Mineral Range Railroad was made standard gauge during the month of September, and is now operated in conjunction with the division of the South Shore line from Marquette. The general conditions, track and equipment, are good and all reasonable facilities are provided for travel or commerce.

The bridge across Portage Lake between Houghton and Hancock is considered unequal to the heavier motive power and traffic of standard gauge equipment. While the bridge has been strengthened in some respects, the factor of safety under conditions above named is uncertain, and a special inspection will be made to ascertain the exact facts in the near future. One hundred and forty-six thousand seven hundred and eleven ties have been placed in the track; 191 tons of new steel laid;

7 bridges rebuilt, comprising 2,861 lineal feet, and 4 bridges filled comprising 1,040 lineal feet, and requiring 65,800 cubic yards of earth.

Frogs and switches satisfactorily blocked.

FLINT & PERE MARQUETTE

The property of this company is in general good condition, considerable improvement having been made in renewal of ties, filling and repairing bridges, etc.

The track improvements include 397,530 ties used in renewal, 192 lineal feet of bridges rebuilt, and 21,520 cubic yards of earth used in filling track openings.

The narrow gauge divisions of this road were found to be much improved, both in condition of track and amount of standard ties put in track, in contemplation of making these divisions standard gauge.

Quite a large number of station buildings were noted that were dilapidated, inadequate for the requirements of public service, and should be renewed. Attention was called to insufficient blocking in frogs and switches, on southern division, and immediate attention was given to this duty.

Interlocking appliances at crossings of this line by railroads, of which there are fifteen, are all in good serviceable condition, except at Clare and Manistee. The former is inadequate, and of poor construction, and the latter, out of use. Both will be properly renewed and maintained at an early date.

The general good reputation of the train equipment and service afforded by this company is maintained.

GRAND RAPIDS & INDIANA.

Inspected November 24 and 26, 1897.

Improvement is noted in the condition of track on this line in Michigan, especially on the southern division. The northern division has not received as much ballast and the surface and alignment of track is not as good, though no dangerous condition exists. The Traverse City, Missaukee and Manistee branches are well maintained and equal to the necessities. The Muskegon division is in exceptionally good condition and the station buildings and structures are satisfactory. Fences have been provided where necessary, and are in good order. One hundred eighty thousand, six hundred fifty-six ties have been used in renewal, and 617 tons of new steel put in the track during the present year.

This company has planned to renew several of their large bridge structures during the coming year, and a contemplated change of the line between Rockford and Mill Creek will dispense with six truss bridges between these two points which require renewal.

The motive power and equipment compare favorably with any in the State.

SAGINAW, WEST SIDE 8AGINAW, EAST SIDE

STATIONS OF F. & P. M. R. R.

MONROE

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LAKE SHORE & MICHIGAN SOUTHERN.

The main line in Michigan, in point of stability, smoothness and alignment, is as near perfection as is possible in modern railroading. The Detroit, Jackson, Lansing and Kalamazoo divisions are well maintained, and in good shape. The Ypsilanti, Fort Wayne and Adrian divisions, on account of the light traffic carried, are not as well maintained, though all are safe and adequate for the service required.

Extensive improvements have been made to the permanent way, track structures and equipment, on the system during the year. This comprises 107,664 ties used in renewal; 711 tons of new steel, 80 lbs. to yard laid in track; bridges rebuilt, 30, with 1,324 lineal feet; bridges and culverts filled, 41, with 1,103 lineal feet, which required 14,946 cubic yards of material. The character of these improvements was generally permanent, bridge renewals being nearly all of stone and iron.

The motive power and train equipment rank with the best in the State, all modern safety appliances being provided; all frog and rail angles filled with blocks as required by law.

LAKE SUPERIOR & ISHPEMING.

This road, which is practically new, comprises twenty miles of main line and is used exclusively for the transportation of iron ore from the mines to the dock near Marquette. The track structure is in first-class condition. The motive power and train equipment is very heavy and supplied with all modern safety appliances, and the general operation and management of the property is good. No scheduled trains for public traffic are provided.

DETROIT & LIMA NORTHERN.

This line is completed and in operation in Michigan from State line in Lenawee county to Tecumseh, using about ten miles of the Wabash Railroad tracks between Seneca and Adrian.

The train service is extended to Detroit from Tecumseh over the tracks of the Detroit, Toledo & Milwaukee, and Wabash railroads.

The material used, and construction of bridges and track structures, is good. The condition of track is fair considering the new grade and the difficulty in keeping track in surface and line. The fences, cattle guards and crossing signs are as yet unfinished, and have been the source of considerable complaint from farmers along the line. These complaints have had due attention, and the company will be required to comply with the law or pay the usual penalties for its violations.

LOWELL & HASTINGS.

This road was inspected on August 25, and the track was found in generally good condition. Repairs to two bridges was suggested, which the company promised to make at once. Motive power and train equipment equal to the necessities.

MANISTEE & GRAND BAPIDS.

This road is exclusively engaged in the transportation of logs and forest products. It consists of 40 miles of main line extending from Manistee to Luther, Lake county. The track structure and rolling stock are in good condition. There is but little fence on the road although it is provided when applied for.

MANISTEE & NORTHEASTERN.

This road was inspected on August 19 and 20, and the condition of the track, bridges and equipment was found to be satisfactory. The station building and interlocking machines were found in good order with the exception of the interlocker at the crossing of the F. & P. M. R. R. at Manistee, which is out of use by stipulation pending proposed changes in the crossing and depot grounds. Interlocking devices at Manistee crossing and Interlochen were renewed and approved for use on December 8. The right of way fences were found to be insufficient in many places.

MANISTIQUE BAILWAY.

Inspected September 30.

Track and bridges in a reasonably safe condition. Motive power and train equipment satisfactory. No frogs or switches were blocked as required by law, but it was promised that this duty should have immediate attention, which has been fulfilled.

MASON & OCEANA BAILBOAD.

This is a small road, 27 miles in length, with a very limited traffic and equipment.

The rail in track is 30 pounds to the yard and is badly bent. A large number of ties were put in track during the present year, and while the road would be generally considered unsafe, the light equipment, slow speed, and generally careful operation of the road reduces the danger to a minimum.

MICHIGAN CENTRAL SYSTEM.

The main line of this system in Michigan, from Detroit to New Buffalo, is as nearly without fault as it is possible to conceive. The stability and permanence of the line, strength and extra factors of safety in bridge and track structures, the fine architectural designs of station buildings, which are furnished with all reasonable facilities for comfort of patrons, and the excellent train equipment and service, certainly deserve commendation.

There has been installed on the double track on main line, improved block signal systems, which preclude the possibility of real collisions.



M. C. R. R., DEARBORN

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The installation and maintenance of these appliances, though expensive, is considered a good investment by the company. A detailed description

of this system will be found elsewhere in this report.

The Grand River Valley; Air Line; Toledo, and Bay City divisions, are in very good condition, and equal to all traffic necessities. The Air Line division, over which the heavy through traffic is carried, has been nearly all relaid with heavy steel. The Mackinaw division, though steel on south end is considerably worn, is in safe and serviceable condition. The Saginaw division, though safe, is in need of ballast nearly the entire length. The South Haven, Battle Creek, North Midland, Twin Lakes, and Gladwin branches, are not in as good condition as main divisions, but are safe and adequate for the service required.

The interlocking and block signaling systems are well maintained and very efficient. Requirements in blocking frogs and switches have received proper attention.

MILWAUKEE, BENTON HARBOR & COLUMBUS RAILWAY.

This road comprises the St. Joseph Valley Railway Company's property, the operation of which was discontinued by order of this department August 11, 1893, together with 17 miles of new line from Benton Harbor to Berrien Springs.

The old line has been thoroughly and permanently rebuilt with firstclass material, all bridges filled or renewed, and with similar construction on the new portion of the line, it is very satisfactory to this department.

The equipment is first-class, and all appliances required by law are provided.

An order was issued July 12, 1897, removing all former restrictions, by this department, and approving the road for public use.

MINNEAPOLIS, ST. PAUL & SAULT STE, MARIE.

Inspected September 24, 1897.

This line was found to be in a safe and efficient condition. Forty-four bridges or culverts have been filled during the present year, requiring 20,240 cubic yards of earth; 90,202 ties were used in renewal.

The ties, surface, and alignment of track on portion of line east of Gladstone are not as good as western district, but are not in an unsafe

condition for the traffic carried.

It is contemplated to put this part of the line in first-class shape during the coming year. The motive power and equipment on this line are excellent and adequate service is afforded. Fences are maintained where necessary, and frogs and switches are blocked as required by law.

MUNISING RAILWAY.

This road, now extended from Munising to Little Lake, on the Chicago. & Northwestern Railway, 38 miles, has lately been opened through to the western terminal for public traffic.

The construction of the line, condition of rolling stock and trafficoperation is satisfactory to this department.

PONTIAC, OXFORD & NORTHERN.

Two inspections of the entire property of this company have been made by this department during the year.

The first inspection was ordered on account of a number of specific

complaints, that the road was unsafe for public traffic.

The report of this inspection, made early in June, which was very thorough, developed the fact that the condition of the track and bridges was as stated in complaints, and required immediate attention by this department.

The chief faults specified were rotten ties, insufficient ballast, and

decayed timber in bridges and track openings.

The matter was taken up with the president and general superintendent of the company, with a view to mutually agree to put the road in safe condition.

On August 25, a letter was received from Hugh Porter, president of the company, outlining work to be done, and material to be used in putting the road in safe condition, and to be finished on October 31.

Among other specifications, all decayed ties were to be removed and replaced with new ties; the road bed to be ballasted where needed, and track lifted and lined the entire length of the road; all decayed or partly decayed timbers or materials in bridges, culverts or cattle guards, to be replaced with new material.

This showing was satisfactory, and further action was deferred until early in November, when a second inspection was made, by two competent experts, for this department, and a report of this inspection showed that the stipulations made by President Porter had not been earlied out

That at least 30 per cent of the ties remaining in the track were in a decayed condition; that ballast had been distributed over about 30 per cent of the line, and about 50 per cent of the entire line had been lifted and lined, about three miles of gravel not having been put under the track, this portion requiring renewal of ties before track could be lifted.

It was submitted that the number of ties in the track, about 2,300 to the mile, was too few, with steel 56 pounds to the yard, for successful and safe operation, considering the heavier and increased traffic carried, and that there should be at least 2,700 ties to the mile.

On this basis, there should be at least 100,000 ties placed in the track during the coming year, and for safe operation during this winter, at least 5,000 should be placed in the track at once, at the weakest places, and where ballast was distributed.

Decayed timber or piles were found in eight bridges or track openings, and it was recommended that trains should be restricted to six miles per hour over these structures until properly repaired.

It was also submitted that switch lights should be placed on main track switch stands.

Upon receipt of this report, an order was issued, November 19, requiring the company to make the repairs recommended, within thirty days, also ordering restricted speed of trains over defective structures until



M. C. R. R., WAYNE

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repairs were completed and that switch lights should be provided within the same time.

Assurance was given that this order would be complied with and the work is now in progress.

The station buildings, motive power and train equipment have been placed in a good condition.

The following return was received from the company:

PONTIAC, MICH., Dec. 20, 1897.

Hon. Sybrant Wesselius, Commissioner of Railroads, Lansing, Mich.:

Dear Sir—In the matter of the order issued to Pontiac, Oxford & Northern R. R. Co., dated Nov. 20, 1897, I beg to submit the following return:

New ties have been placed in the track at points where needed, to wit: in Oxford yard, in the cut north of Oxford, thence to the summit of Dryden Hill, and all places where ballast is distributed and not put under track, with the exception of about one-half mile on sections 15 and 16, where ties are in good shape, but track has not been lifted owing to the setting in of bad weather before it was reached. This piece of track is in perfectly safe condition for the winter, but it will be lifted as soon as weather permits. In all, 2,676 new ties have been put in track since November 10.

Two auxiliary stringers have been placed in Cole Lake bridge, all decayed material renewed in Paint Creek bridge, and cattle passes Nos. 28, 31, 33 and 46, and culverts at Miller's Crossing, and Nos. 95, 121 and 209, and Caseville bridge. Also other openings not specified in the order.

Lamps have been placed on switch stands in Pontiac and Oxford yards, and lamps ordered from manufacturers for all other main line switch stands, which are promised not later than the 27th inst. All main line switches will be equipped with lamps before 31st inst. An effort was made to have the lamps on stands within the time limit of the order, but manufacturers could not supply them.

Under these circumstances, I trust it will not be necessary to reduce the speed of trains as indicated in the order.

Yours truly,

W. C. SANFORD, General Superintendent.

SAGINAW, TUSCOLA & HURON.

This road was found in good condition. The bridge structures are nearly all of stone and iron, and the surface and alignment of track is very good. About five miles of heavy steel has been used in replacing the light steel on east end of line. It was noted that the noxious weeds had not been cut in many places and had gone to seed.

Whistling posts for highway crossings are being put in position.

SOUTH HAVEN & EASTERN.

This road shows improvement in general conditions.

Arrangements have been perfected to make standard gauge of track, over six miles of heavier steel having been laid during the year, and it is expected that the entire line will be made and operated standard gauge in the early spring.

The steep grades have been considerably reduced.

Motive power and equipment have been improved and service is satisfactory.

VANDALIA LINE.

The portion of this line in Michigan extends from St. Joseph to Galien, about 24 miles.

The condition of the road and service is satisfactory, no complaints having been received, except pertaining to fences, which were speedily adjusted, to the satisfaction of those concerned.

WABASH.

The line of this company in Michigan, extending from Detroit to North Morenci, 73 miles, was found in good condition. Oak ties are used and the track maintenance is excellent. Criticisms were made on condition of crossing frogs at Delray crossing of M. C. R. R., which are being renewed, and the bridge across Raisin river, near Adrian, which it is arranged to renew at once, the material being on the ground.

Equipment and service is excellent, and frogs and switches are blocked

as required by law.

WISCONSIN & MICHIGAN.

The line of this company in Michigan extends from Fisher to Faithorn Junction, 24 miles.

The permanent way on this road is fair, although deficient in ballast, is well tied, and considering the slow time schedule for trains, is not unsafe.

Equipment is in good condition, and well provided with safety appliances required by law.

It may be added that an important factor in the revenues of this road is a car ferry line from Peshtigo, Wisconsin, to Chicago and other lake ports.

COMPLAINTS AND PETITIONS.

January 19, 1897, petition was received from W. J. Reed, highway commissioner of Carp Lake township, Emmet county, requesting a highway crossing over the Grand Rapids & Indiana Railroad at Levering. After the necessary right of way had been secured, an inspection of the proposed crossing was made by the department. An order, with plans and specifications attached, was issued March 3, 1897.

January 26, complaint was received from D. S. Barrett of Clyde, Oakland county, alleging that the view of trains approaching the Flint & Pere Marquette railroad crossing at Clyde was so obstructed as to render the crossing dangerous, and requesting proper protection. After an inspection had been made by the department and a hearing afforded all parties interested, it was agreed that the crossing should be moved twenty feet north, and an order was issued for an electric alarm bell atsaid crossing.

January 30, resolutions of the common council of the city of Grand' Rapids were received, charging that the Grand Rapids & Indiana, and Detroit, Grand Rapids & Western railroad crossing, on Sixth street, in said city, was not properly protected, and requesting a watchman and gates. After an inspection by the department and a hearing had been afforded to all parties interested, an order was issued, February 3, compelling said railroad companies to erect gates and station a watchman at said crossing.

February 1, petition from Joseph Wendel of Jackson county was received, requesting a farm crossing over the Lake Shore & Michigan Southern Railway between Woodstock and Brooklyn. After an inspection of the proposed crossing by the department, the railway company was notified of the petition and requested to put in said crossing. On February 12, company reported that the request had been complied with.

February 4, petition of W. Dyskerhuis, highway commissioner of Muskegon township, Muskegon county, was received, requesting a crossing over the Chicago & West Michigan Railway at the intersection of the so-called Laketon road. This mater was investigated by the department and it was found that the road in question ceased to be a highway in 1873, and that the crossing could not therefore be ordered put in at the expense of the railroad company. Application denied.

February 10, petition of John Jones of the village of Galien, Berrien county, was received, requesting a farm crossing over the tracks of the

Indiana & Lake Michigan Railroad Company. After an inspection by the department, it was determined that the crossing was unnecessary,

and the prayer of the petitioner was denied on February 10.

February 10, complaint was received from the common council of the city of Benton Harbor, charging that the protection at the intersection of the Cleveland, Cincinnati, Chicago & St. Louis Railway and the St. Joseph Valley Railway, on Territorial street in said city, was inadequate, and requesting that proper protection be ordered. After an inspection by the department and a hearing afforded to all parties interested, the above named railroad companies were ordered, February 25, to station a watchman at said crossing.

February 11, resolutions of the common council of the city of Detroit were received, alleging that the Michigan Central, Grand Trunk, and Lake Shore & Michigan Southern railroad crossing at Beaubien street, in said city, was not protected, and requesting that gates be ordered for the same. This matter was inspected by the department and a hearing of all parties interested was had, and, on April 8, the railroad companies above named were ordered to provide an electric bell for said crossing.

February 16, complaint was received from the village of Fremont, Newaygo county, alleging that the protection at the Chicago & West Michigan Railway crossing in that village was inadequate. After an inspection by the department, the company was ordered to flag all trains over said crossing, on and after May 25.

February 18, complaint was received from the common council of the village of Chelsea, charging that the crossing of the Michigan Central railroad, on Main street, in said village, was not properly protected, and requesting a flagman at said point. After an inspection had been made of the premises, the railroad company was ordered, on May 19, to station a flagman at said crossing.

February 24, complaint was received from M. M. Bennett, highway commissioner of Seneca township, Lenawee county, alleging that the crossings over the Detroit & Lima Northern Railway, in said township, were in bad condition and impassable for teams. On the same date the company was notified of said complaint and requested to make the neces-

sary repairs at once. No further complaint received.

March 1, complaint was received from the township of Springwells, Wayne county, alleging that the crossings of the Michigan Central, Lake Shore & Michigan Southern, Wabash, and Detroit, Grand Rapids & Western railroad companies, on the Dearborn road, Waterman avenue, Langlois avenue, and the Exposition track, were not properly protected. Careful inspection was made of these crossings by the department, and the railroads above named were ordered to station flagmen at the Dearborn road, Waterman and Langlois avenues, and to stop all trains before crossing the so-called Exposition tracks, and that the trainmen flag said trains over said crossing.

March 2, complaint of James J. Munson of Fairfield township, Shiawassee county, was received, alleging that the fence between his property and the Ann Arbor Railroad right of way was not properly constructed. The company was notified of the complaint and they agreed to rebuild the same. On July 12, the work was inspected by this department and

found to be in compliance with the statute.

March 2, complaint was received from the township board of Wyoming, Kent county, stating that the crossing of the Grand Rapids & Indiana and Michigan Central railroads, on Burton avenue, was in a dangerous condition, and requesting a flagman at the same. This crossing was inspected by the department, and no further protection was deemed necessary.

March 3, complaint was received from the common council of the city of Hudson, charging that the Lake Shore & Michigan Southern Railway crossings on Church, Market and Lane streets, in said city, were in an unsafe condition, and requesting additional protection. An inspection of these crossings was made by the department on March 16, and said railway company was ordered to maintain electric alarm bells at Market and Lane streets, to be operated by a watchman at Church street.

March 7, complaint was received from the village of Dearborn, Wayne county, alleging that the Michigan Central Railroad crossing on Mason street, in said village, was not properly protected. An inspection of the premises was made by the department and a hearing afforded to all parties interested, after which said railroad company was ordered to station a flagman at said crossing.

March 11, petition was received from the residents of Marcellus, Cass county, requesting additional protection at all Grand Trunk Railway crossings in said village. An inspection was made of the several crossings by the department and a hearing afforded to all parties interested, and on March 16 the railway company was ordered to place electric alarm bells at three crossings in said village.

March 15, complaint was received from Frank Sharp of Howell, charging that the crossing of the Detroit, Grand Rapids & Western Railroad, between Howell and Howell Junction, was frequently blocked by trains standing on the same, and that the planking in said crossing was in an imperfect condition. On March 24, the railroad company was informed of the complaint, and in reply denied the charges therein made, after which the matter was investigated by the department and the planking at said crossing was found to be in first-class condition.

March 19, complaint was received from Jesse Thompson of Bear Lake township, Manistee county, stating that the Manistee & Northeastern Railroad Company's fence, adjacent to his property in the village of Chief, was not properly constructed. On March 31, the railroad company was informed of the complaint and requested to repair said fence. No further complaint was received.

March 23, petition was received from L. K. Stein, highway commissioner of Bloomfield township, Saginaw county, requesting a new crossing in said township over the Michigan Central Railroad. After the required right of way had been secured and an inspection had been made by the department of the proposed crossing, an order, with plans and specifications attached, was issued.

March 29, complaint was received from Alfred Garlock of Howell township, Livingston county, alleging that the grade of the tracks of the Ann Arbor Railroad had been raised and rendered the farm crossing of the complainant impassable. This matter was called to the attention of the railroad company on March 30, with a request that the same be repaired at once, which said request was complied with.

March 30, complaint was received from William Hanrahan of Bath, Clinton county, stating that the fence between the Michigan Central right of way and his property was insufficient. On April 1, the company was notified of the complaint, and on April 22 word was received from Mr. Hanrahan that said fence had been repaired.

April 1, complaint was received from John Mitchell of Carland, Shiawassee county, alleging that the Ann Arbor Railroad Company's fences adjacent to his property had never been completed. On April 9, the company was ordered to complete said fences. The order complied with.

April 7, complaint was received from John Mitchell of Rush township, Shiawassee county, charging that the Ann Arbor Railroad Company's fence was insufficient to afford protection for cattle. The company's attention was called to the complaint and they agreed to repair the fence at once. At a later date the work was inspected by the department and found to be in compliance with the statute.

April 7, complaint was received from L. A. Beadle of Augusta, alleging that since the alteration had been made in the grade of the Cincinnati, Jackson & Mackinaw Railway, it was impossible for him to reach a portion of his farm located on the opposite side of the track; he also stated that for a certain consideration he would waive his claim for a crossing. On April 9, this complaint was referred to the railroad company, and on April 26 a meeting was arranged between them, and as no further complaint was received the case was closed.

April 11, complaint was received from the city of Saginaw alleging that the blocking of the rails and frogs of the Michigan Central Railroad, at the Genesee avenue crossing, was defective and dangerous. After an inspection had been made of the crossing in question, the railroad company was ordered to place new frogs at said crossing.

April 12, Petition was received from William E. Short of Swartz Creek, alleging that the Chicago & Grand Trunk Railway crossing, on Main street in said village, was not properly protected. An inspection of the crossing was made by the department and additional protection found to be unnecessary.

April 16, petition was received from residents of the village of Mackinaw, requesting that a flagman be ordered stationed at the Michigan Central and Grand Rapids & Indiana railroad crossing, on Huron street, in said village. An inspection of this crossing was made by the department and a hearing afforded to interested parties, and the railroad companies were ordered as follows:

That no cars or engines be allowed to stand or remain within 20 feet of the street limits; that the speed of engines and trains be not to exceed 6 miles per hour while passing crossing, and that passenger trains be made up at some other place than upon or over this crossing, and that the planking of the entire crossing be raised one-half inch above the surface of the rails in the tracks, as required by law.

April 20, petition was received from Michael Speck, highway commissioner of Beaugrand township, Cheboygan county, requesting a highway crossing over the Michigan Central Railroad, in said township. After the necessary right of way had been secured and inspection had been made of the proposed crossing, an order, with plans and specifications, was issued June 28.

April 21, complaint was received from the residents of the village of Wayne, alleging that the Michigan Central Railroad crossing, on Sophia street, in said village, was not properly protected. This matter was investigated by the department and a hearing of all parties in interest had. The railroad company was ordered to station a flagman at said crossing.

April 22, complaint was received from E. Pruin of Spring Lake, Ottawa county, alleging that the crossing at the village limits in Spring Lake, which had been in use more than 30 years, was obstructed by the Detroit, Grand Haven & Milwaukee Railway, and requesting that steps be taken to have said obstruction removed. After an inspection had been made of the crossing, the D., G. H. & M. R'y Co. was notified of the complaint and requested that the prayer of the petitioner be granted. On July 15, word was received from said railway company stating that said crossing was a private crossing and declaring that it was the policy of the road to have all highway crossings legally opened. On July 20, the communication was referred to Mr. Pruin, and satisfactory arrangement was made between the parties.

April 22, resolutions of the common council of the city of Detroit were received alleging that the Michigan Central, Grand Trunk, and Lake Shore & Michigan Southern crossings, on 14th avenue, were improperly protected, and requesting that said crossings be provided with gates. Personal inspection of the crossings was made by the department, and it was agreed that gates would not improve the protection at this point.

April 24, resolutions were received from the village of Belding charging that the Detroit, Grand Rapids & Western Railroad crossing, on Bridge street, in said village, was not properly protected. An inspection was made of the premises and a hearing afforded to all parties interested. The above named railroad company was ordered to station a flagman at said crossing when in use.

April 30, complaint was received from the common council of Pontiac, alleging that the Detroit, Grand Haven & Milwaukee Railway crossings, on Wesson street and Orchard Lake avenue, in said city, were not properly protected. An inspection was made by the department, and on June 12 said company was ordered to place an electric alarm bell at the Wesson street crossing, and petition denied as to Orchard Lake avenue crossing.

May 6 complaint was received from the village of Deerfield, alleging that the planking in the main crossing of the Lake Shore & Michigan Southern Railway in said village was not wide enough to accommodate traffic on said crossing. Said company was requested to widen said crossing, which request was complied with.

May 11 complaint of Mrs. J. H. Thompson of Evangeline township, Charlevoix county, was received, stating that the fence had not been constructed between the Beyne City & Southeastern Railway Company's right of way and her property. The company was notified of said complaint and, after a limited correspondence, word was received that said fence had been ordered erected.

May 11 complaint was received from D. W. Gould of Bimo, Lenawee county, alleging that the fences of the Detroit & Lima Northern Railway Company adjacent to his property had not been constructed. On

May 15 the matter was investigated by the department, and on May 19 a formal order was issued against said railway company to construct said fence within fifteen days.

May 22 petition was received from Harmon Gregory of Hartford township, Van Buren county, alleging that the South Haven & Eastern Railroad Company's fence adjacent to his property was in need of repairs. After an inspection of the premises named in the petition the fence was ordered constructed.

May 22 petition was received from the village of Zeeland, Ottawa county, requesting additional protection at the Chicago & West Michigan Railway crossing in said village. This matter was investigated by the department, and on June 3 an order was made compelling said railway company to widen the planking of said crossing and to station a flagman at the same, which said order was complied with.

May 28 complaint was received from C. W. Cromwell of the village of McBain alleging that the crossing of the Ann Arbor Railroad on Euclid avenue had been closed by said railroad company to the great inconvenience of the public. An investigation was made of the premises, and it was found that they had not acquired the right of way and pending a settlement between the village and said railroad company, a flagman was ordered stationed at the only remaining crossing in said village.

June 1 complaint was received from William Hogg of Nessen City, Benzie county, alleging that the connecting fence at the road crossing of the Manistee & Northeastern Railroad, a short distance from said village, was improperly constructed. On June 3 said company was notified of said complaint, and on June 16 reply was received from them stating that said fence had been approved by this department in 1896 on receipt of a similar complaint.

June 3 petition was received from Fred G. Walters, highway commissioner of Beaverton township, Gladwin county, requesting two highway crossings over the tracks of the Flint & Pere Marquette Railroad Company in said township. After the necessary right of way had been secured, orders with plans and specifications were issued for said crossings on June 10 and June 25, respectively. On June 30 word was received from said petitioner that the work on said crossings was in process of construction.

June 12 complaint was received from the residents of the village of Lawton, alleging that the planking at the Main street crossing of the Michigan Central Railroad in said village was too narrow to accommodate traffic at said crossing. On June 12 the railroad company was ordered to widen said crossing to thirty-two feet. The order was complied with.

June 15 complaint was received from W. J. Jennings of Wise township, Isabella county, requesting a highway crossing over the Flint & Pere Marquette Railroad Company's tracks in Wise township. On June 19 petitioner was informed of the necessary steps to be taken for acquiring the right of way. On October 7, having secured the necessary right of way, an order with plans and specifications attached was issued.

June 19 complaint was received from W. H. S. Wood of the village of Cohoctah, Livingston county, charging that the highway crossing of the Ann Arbor Railroad, known as Houtailing crossing, near said village, was dangerous to the traveling public. An investigation was made of this crossing, and a hearing afforded to all interested parties. It was decided that if the whistle was sounded when trains approach said crossing no further protection would be necessary, order to which effect was issued.

June 19 petition of Nathan Lefler of Bentley, Bay county, requesting a crossing over the Michigan Central Railroad in said town was received. On June 20 said petitioner was advised to secure the necessary right of way. On November 12, upon receipt of the evidence showing that the necessary right of way had been secured, an order with plans and specifications was issued for such crossing.

June 19 petition was received from Peter Cody, highway commissioner of Pinconning township, requesting a crossing over the Michigan Central Railroad in said township. On October 2 evidence was sent showing that the necessary right of way had been secured. October 6 an order with plans and specifications attached was issued for said crossing.

June 25 complaint was received from D. O. Holden, highway commissioner of Bellevue, alleging that the Lime Kiln crossing over the Grand Trunk Railway, one-half mile west of Bellevue, was in a dangerous condition, and the planking but nineteen feet wide. After inspection of the premises the railroad company was ordered on July 9 to widen the roadway to twenty-four feet.

June 25 complaint was received from the residents of Gun Plains township, Allegan county, alleging that the Hunt crossing, so called, over the Grand Rapids & Indiana Railway, was in a dangerous condition, requesting that the railway be ordered to lay tile and fill the ditch at said crossing so that teams could drive directly across said tracks. This petition was referred to the railroad company July 3 and request was promptly granted.

June 25 complaint was received from the residents of the city of Ann Arbor alleging that the planking on the various crossings of the Ann Arbor Railroad in said city were in need of repairs. On July 9 the company was ordered to repair all crossings in said city where necessary.

June 25 complaint was received from the common council of Reed City charging that the Grand Rapids & Indiana and Flint & Pere Marquette railroad crossings on Slosson avenue and Main street, were improperly protected. An investigation was made of these crossings by the department and a hearing afforded to interested parties. On July 9 said railroad companies were ordered to flag all trains over said crossings.

June 26 complaint was received from the common council of the city of Detroit alleging that the Union Station and Terminal Association crossing on Military avenue in said city was not properly protected, and asking that a watchman be stationed at this point. Careful investigation was made of the necessity for additional protection

at this crossing, and on July 8 a flagman was ordered stationed at said crossing.

June 26 complaint was received from A. A. Ellis, mayor of Ionia, alleging that the Detroit, Grand Rapids & Western and Detroit, Grand Haven & Milwaukee crossing on Steel street in said city was in need of additional protection. This matter was taken up and an inspection made by the department, and on August 11 the companies were ordered to station a flagman at said crossing.

June 27 petition was received from Mrs. Halladay and Mrs. West, living about three miles west of Battle Creek, requesting a farm crossing over the tracks of the Michigan Central Railroad at this point. An investigation of the premises was made by the department, the company notified of the petition, and the crossing ordered built.

June 28 petition from Dr. C. M. Glass of the village of Corey, Cass county, was received, requesting a farm crossing over the tracks of the Michigan Central Railroad Company near said village. After an investigation of the premises by the department, a satisfactory arrangement was made with the company for the crossing.

June 28 complaint was received from Charles Butts of Niles, alleging that the Cleveland, Cincinnati, Chicago & St. Louis Railway fence adjacent to his property was in poor condition, and asking that the same be ordered repaired. On July 14 said railroad company was notified of the complaint, and on July 24 reply was received that said fence had been repaired. On August 13 a second complaint was received from Mr. Butts claiming that although the fence had been repaired it was still inadequate for the protection of his stock, after which a personal inspection was made by the department and the style of fence in use at the point in question approved by the commissioner.

July 6 complaint was received from the residents of Hillsdale, Hillsdale county, alleging that the Lake Shore & Michigan Southern Railway crossing on West street, in said city, was not properly protected. After investigation by the department, the railway company was ordered on August 5 to station a flagman at said crossing, which order was complied with.

July 6 complaint was received from the highway commissioner of the township of Plymouth, Wayne county, stating that the Flint & Pere Marquette Railroad crossing south of Northville station was in need of additional protection, and asking that the same might be ordered. A personal inspection of the crossing in question was made by the department and a hearing afforded to all parties interested, and on July 9 the railroad company was ordered to operate an electric alarm bell at said crossing. The order was complied with.

July 12 complaint was received from Z. Cook, of Adrian, stating that the line fence between his property and the right of way of the Detroit & Lima Northern Railway had not been constructed, and asking that an order be made to compel them to construct the same within a reasonable time. On July 17 complaint was referred to the railroad company, and on July 20 word was received that the fence would be constructed at once.

July 12 complaint was received from G. B. Garlinghause of Tecumseh, Lenawee county, alleging that the Detroit & Lima Northern Railway fence adjacent to his property had not been constructed. On July 20 the railway company was notified of the complaint, and on July 22 word was received that the same would be built at once.

July 15 complaint was received from Mr. Williams of Seneca township, Lenawee county, stating that the Detroit & Lima Northern Railway Company had neglected to build the fence adjacent to complainant's property. On July 20 the railway company was notified of the complaint. July 22 a telegram was received stating that the fence would be constructed at once.

July 16 petition was received from G. W. Dickinson of Pontiac requesting information as to the necessary steps to be taken to secure a crossing over the Detroit, Grand Haven & Milwaukee Railway at Sanderson avenue in said city. On July 17 the petitioner was informed as to the requirements in such case, and the matter is still unfinished.

July 18 complaint was received from James La Munion of Derby, Berrien county, alleging that the fence between his property and the Indiana & Lake Michigan Railway Company's right of way had not been built. After an inspection had been made of the location in question an order was issued September 2 compelling said railway company to construct said fence.

July 19 complaint was received from E. Dean of Lake Cora stating that the South Haven & Eastern Railroad Company's fence adjacent to complainant's property for a distance of eighty rods had not been constructed. On July 20 said railroad company was notified of said complaint, and on July 31 word was received that said fence had been completed.

July 23 petition was received from the common council of the city of Grand Rapids requesting better protection at the Detroit, Grand Haven & Milwaukee Railway crossing on Lafayette street in said city. Inspection of this crossing was made by the department and a hearing afforded to all parties interested. On August 11 an order was issued directing the railway company to transfer their watchman from Clancy street to Lafayette street and to place an electric alarm bell at the Clancy street crossing, which said order was complied with.

July 28 complaint was received from John E. Fisher of Eau Claire alleging that the Cleveland, Cincinnati, Chicago & St. Louis Railway had not constructed its right of way fence adjacent to complainant's property. On August 4 said railway company was notified of said complaint, and on September 13 word was received that said fence had been completed.

August 10 petition was received from Charles E. Kane, highway commissioner of Martiny township, Mecosta county, for a proposed crossing over the Detroit, Grand Rapids & Western Railway at Chippewa Lake. Old plans for a crossing, issued two years previous, were returned, petitioner requesting new plans for the same. New plans and specifications were issued on August 10. On September 2 communication was received from the railroad company stating that the right of way for said crossing had not been granted, but consenting to construct said crossing provided said township pay the expense thereof. This proposition was submitted to Mr. Kane, and as yet no reply has been received.

August 18 complaint was received from Thomas Mars of Berrien Center, Berrien county, alleging that the Cleveland, Cincinnati, Chicago & St. Louis Railway fences adjacent to his property were in need of repairs. An investigation was made of the location in question, and an order was issued September 2 for the reconstruction and repairing of said fence.

August 19 petition of George W. Sickles of Wolverine, Cheboygan county, asking whether petitioner could be allowed to use one of the private crossings of the Michigan Central Railroad Company adjoining his farm. He was advised that the matter would be investigated by the department. After such investigation it was decided that the

department had no jurisdiction in the premises.

August 26 complaint was received from the common council of the city of Detroit alleging that the Lake Shore & Michigan Southern Railway, Michigan Central and Wabash railroads crossing on Hastings street in said city was not properly protected. After a careful inspection of the premises by this department and a hearing given to all parties interested, on October 12 a flagman was ordered at said crossing. Said order has been complied with.

August 26 complaint was received from the board of education at Iron Mountain alleging that the Chicago, Milwaukee & St. Paul Railway crossing at D street was not properly protected. An inspection of the premises was made on September 22, and it was found that the railway company of its own accord had stationed a flagman at this

crossing on September 14.

September 3 complaint was received from D. B. Cunningham of Boyne City, Charlevoix county, alleging that the fence between his property and the Boyne City & Southeastern Railroad Company's right of way had not been erected. Said company was notified of the complaint, and on October 8 word was received from Mr. Cunningham that said

fence had been completed.

September 7 complaint was received from Robert S. Savage of Madison township, Lenawee county, stating that the connecting fence, wing fences and cattle guards had not been constructed by the Detroit & Lima Northern Railway Company between his property and its right of way. On September 11 Mr. Savage was requested to make a formal complaint, which was received on October 4. On that date said railway company was requested to erect the same at once. On October 7 reply was received that the same would be constructed immediately.

September 17 petition from the residents of Newberry township, Cass county, requesting that gates or bells be provided at Michigan Central Railroad crossings east of Jones in said township. After an inspection of this crossing by the department and a hearing given to all interested parties, an order was issued October 5 directing said railroad company to operate an electric alarm bell at this point, which

said order was complied with.

September 20 complaint was received from B. Q. Goodrich of Nottawa, Nottawa township, St. Joseph county, charging that the Grand Rapids & Indiana Railway crossing one-half mile north of Nottawa is steep, narrow and in a very dangerous condition. The company was noti-

fied of the complaint, and word was received from them December

10 that the crossing had been placed in proper condition.

September 22 complaint was received from W. J. Woolston of Luther stating that the line fence between his property and the right of way of the Grand Rapids & Indiana Railway Company had not been constructed. On September 24 said railway company was informed of said complaint, and on October 6 reply was received that the work on the same would be commenced at once.

September 23 complaint was received from H. D. Van Camp of Hartford township, Van Buren county, alleging that the South Haven & Eastern Railroad Company's fences adjacent to complainant's property had not been erected. On September 24 an order was issued directing said railroad company to construct said fences within fifteen days.

September 24 complaint was received from George S. Stoddard of Rodney, Mecosta county, stating that the Detroit, Grand Rapids & Western Railroad Company had not constructed its fences between his property and the company's right of way. Said company was notified at once of the complaint, and requested to build said fence, which request was complied with.

October 1 complaint was received from John Diebel of Winsor township, Huron county, alleging that the farm crossing at said point over the Saginaw, Tuscola & Huron Railroad had been closed. On October 18 inspection was made and agreement consummated with said rail-

road company to reopen said crossing at once.

October 7 petition was received from the common council of the city of Detroit praying that a watchman be placed at Summit, Ferdinand and Campbell avenues crossing over the Union Station and Terminal Association's tracks in said city. After a careful investigation had been made and a hearing afforded to all interested parties, it was agreed that a bell should be placed between Summit and Ferdinand avenues, and on October 19 an order to that effect was issued, which said order has been complied with.

October 9 complaint was received from the residents of the village of Ceresco alleging that the depot of the Detroit, Toledo & Milwaukee Railway Company was burned on June 25, and requesting that a new one be constructed. A personal investigation of the premises was made by the department, and the railway company agreed to rebuild the same

immediately.

October 25 complaint was received from E. S. Reist of Ashley, Gratiot county, alleging that the natural water course had been obstructed by the Toledo, Saginaw & Muskegon Railroad in Washington township.

This matter is still under consideration by the department.

October 29 complaint was received from the common council of Howell stating that the approaches of the bridge over the Ann Arbor Railroad were in dangerous condition. After investigation by the department the company was notified of the complaint, and a reply was received agreeing to make the necessary repairs.

November 1 complaint was received from S. E. Bevier of Clarksville alleging that the Lowell & Hastings Railroad Company was charging five cents per mile for passenger traffic on its road. An investigation of this charge was made by the department, and the complaint was

referred to the railroad company with a request to comply with the law in this regard.

November 4 petition from Andrew Walling, highway commissioner of Mellen township, Menominee county, requesting a highway crossing over the tracks of the Chicago & North Western Railway in said township. After the necessary right of way had been secured and an investigation made of the premises by the department, on November 16 an order with plans and specifications attached was issued.

November 5 petition was received from the common council of the village of Plymouth requesting additional protection at Main street crossing of the Flint & Pere Marquette Railroad, and also at the first crossing east of the union depot over the Detroit, Grand Rapids & Western Railroad, in said village. After a personal investigation by the department of the crossings in question, a flagman was ordered at the Main street crossing on November 16, and the Detroit, Grand Rapids & Western Railway Company was ordered to reduce the speed of all trains to six miles per hour at the other crossing.

November 8 petition was received from Frank H. Beard of Detroit requesting additional protection at the crossing of the Union Depot Company's tracks on Waterman avenue, in Springwell township. A careful investigation of the premises was made by the department, and the additional protection was deemed unnecessary. Therefore the

prayer of the petitioner was denied.

November 19 complaint was received from the city of Adrian in regard to the crossings of the Detroit & Lima Northern, the Wabash, and Lake Shore & Michigan Southern Railways in that city, alleging that the same were in dangerous condition. A personal investigation of the several crossings in that city was made on November 23, and the matter is still unfinished.

November 22 complaint was received from E. S. Reist of Ashley, Gratiot county, alleging that the Ann Arbor Railroad Company had obstructed a drain in Washington township, in said county, and refused to reopen the same. This matter is still under consideration by the department.

OFFICIAL ORDERS.

ISSUED BY THE COMMISSIONER OF RAILROADS OF THE STATE OF MICHIGAN, FROM NOVEMBER 27, 1896, TO DECEMBER 1, 1897.

1896.

1. Nov. 27. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. M. Whitman, general manager of the Chicago & North Western Railway Company:

Special order permitting telephone company to string four wires over the tracks of the C. & N. W. Ry. on Maple and Chapin streets, between Fifth and Sixth streets, in the city of Iron Mountain, county of Dickinson, Michigan.

2. Nov. 27. To Henry Gorton & Son, Waterloo, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting Henry Gorton & Son to string telephone wire over the tracks of the M. C. R. R. one mile west of the village of Chelsea, county of Washtenaw, Michigan.

3. Nov. 30. To the president of the village of Vicksburg, Michigan, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting the village to string electric light wires over the tracks of the C. & G. T. Ry. in Vicksburg, Michigan.

4. Nov. 30. To the president of the village of Vicksburg, Michigan, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting the village to string electric light wires over the tracks of the G. R. & I. Ry. in Vicksburg, Michigan.

5. Dec. 4. To F. R. Deckrow, commissioner of highways of Grayling township, Crawford county, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order of plans and specifications for highway crossing in

the township of Grayling, county of Crawford, Michigan.

6. Dec. 4. To the Lansing water works and electric light board, H. B. Ledyard, president of the Michigan Central Railroad Company, and Charles M. Heald, receiver of the Detroit, Lansing & Northern Railroad Company:

Special order permitting the board to string electric light wires over the tracks of the M. C. R. R. and D., L. & N. R. R. on Michigan avenue, Lansing, Michigan.

7. Dec. 7. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. D. Hawks, president of the Detroit & Mackinac

Railway Company:

Special order permitting telephone company to string wires over the

tracks of the D. & M. Ry. at North Bay City, Michigan.

8. Dec. 7. To F. A. Forbes, general manager of the Michigan Telephone Company, H. B. Ledyard, president of the Michigan Central Railroad Company, and Charles M. Heald, receiver of the Detroit, Lansing & Northern Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. and D., L. & N. R. a. on Shiawassee street,

Lansing, Michigan.

9. Dec. 7. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Crapo, general manager Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at Atlantic street, Bay City, Michigan.

10. Dec. 8. To Michael A. Sommerfield, commissioner of highways of Merritt township, Bay county, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order of plans and specifications for highway crossing in the

township of Merrit, county of Bay, Michigan.

11. Dec. 8. To E. K. Warren, president village of Three Oaks, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting the village to string electric light wires over the tracks of the M. C. R. R. on west side of Elm street, Three

Oaks, Michigan.

12. Dec. 9. To G. R. Hurd, superintendent of the Monroe Electric Light and Power Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting light and power company to string electric light wires over the tracks of the L. S. & M. S. Ry. to the Sterling

Mills in the city of Monroe, Michigan.

13. Dec. 9. To Charles M. Heald, general manager of the Chicago & West Michigan Railway Company, and Henry Starke, president of the Arcadia & Betsey River Railway Company:

Special order approving interlocking plant at the crossing of the

two roads at Henry, Manistee county, Michigan.

14. Dec. 11. To M. E. Liniham, Kalamazoo Fire Department, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting fire department to string fire alarm wires over the tracks of the L. S. & M. S. Ry. on Parson street, Kalamazoo,

Michigan.

15. Dec. 14. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Detroit, Grand Haven & Milwaukee Railway Company:

Special order permitting telephone company to string wires over the tracks of the D., G. H. & M. Ry. at alley between Scott and Pierce streets, Detroit, Michigan.

16. Dec. 14. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. A. at the intersection of Clay street and St. Aubin avenue, Detroit, Michigan.

17. Dec. 21. To F. A. Forbes, general manager of the Michigan Telephone Company, A. B. Atwater, superintendent of the Grand Trunk Railway system, western division, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to change poles to north side of Michigan avenue, where wires cross the two railroads, Detroit, Michigan.

18. Dec. 23. To John Strong & Son, South Rockwood, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting company to string a telephone wire over the tracks of the L. S. & M. S. Ry. in South Rockwood, Michigan.

19. Dec. 24. To H. B. Ledyard, president of the Michigan Central Railroad Company, D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company, C. M. Hays, general manager Grand Trunk Railway Company, and A. B. du Pont, general manager of the Detroit Citizens' Street Railway Company:

Special order approving derailing and signaling appliance at the cross-

ing of the railroads on Grand River avenue, Detroit, Michigan.

20. Dec. 24. To J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway, and A. B. Atwater, general superintendent of the Toledo, Saginaw & Muskegon Railway Company:

Special order modifying order of approval of interlocking plant at

the crossing of the two railroads at Cedar Springs, Michigan.

21. Dec. 30. To Charles M. Hays, general manager of the Grand Trunk Railway Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order modifying order of approval of interlocking plant at the crossing of the two railroads at Grand Trunk Junction, Michigan.

22. Jan. 2. To Charles M. Heald, receiver of the Detroit, Lansing & Northern Railroad Company, and Charles M. Hays, general manager of the Toledo, Saginaw & Muskegon Railway Company:

Special order modifying order of approval of interlocking plant at

the crossing of the two railroads at Greenville, Michigan.

23. Jan. 4. To H. B. Ledyard, president of the Michigan Central Railroad Company; Charles M. Hays, general manager Cincinnati, Saginaw & Mackinaw Railway Company, and I. Bearinger, president of the Inter Urban Railway Company:

Special order approving derailing and signaling device at the crossing

of the railroads between Carrollton and Zilwaukee, Michigan.

24. Jan. 4. To the Michigan Central Railroad Company and the Fort Street Depot Company:

Decision in the matter of maintenance of viaduct on River street, Detroit, Michigan.

25. Jan. 6. To F. A. Forbes, general manager Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on North Church street, Kalamazoo, Michigan.

26. Jan. 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. on Farmer street, Otsego, Michigan.

27. Jan. 11. To G. R. Hurd, manager of the Monroe Electric Light and Power Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting light and power company to string wires over the tracks of the F. & P. M. R. R. on Front street, Monroe, Michigan.

29. Jan. 20. To John H. Tripp, manager Kibbie Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at Kibbie, Michigan.

30. Jan. 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. C. Potter, secretary and treasurer of the Chicago, Kalamazoo & Saginaw Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. K. & S. Ry. on East Frank street, Kalamazoo, Michigan.

31. Jan. 21. To H. J. Kinnucan, superintendent of the Postal Telegraph-Cable Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting cable company to string wires over the tracks of the M. C. R. R. at Decatur, Michigan.

32. Feb. 2. To J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order for erection of safety gates at the crossing of the two railroads on Sixth street, Grand Rapids, Michigan.

33. Feb. 9. To Thomas Neal, secretary of the Acme White Lead and Color Works, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting Acme works to string electric light wires over the tracks of the M. C. R. R. on St. Aubin avenue, Detroit, Michigan.

34. Feb. 11. To James S. Brailey, manager of the Adrain Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Main, Michigan and Center streets, and alley between Dennis and State streets, Adrian, Michigan.

35. Feb. 17. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. at Sibley's Crossing, Michigan.

36. Feb. 17. To F. A. Forbes, general manager of the Michigan Telephone Company, and C. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of the C. & W. M. Ry. at Englishville, Michigan.

37. Feb. 25. To the Cleveland, Cincinnati, Chicago & St. Louis Railway Company, and the St. Joseph Valley Railway Company:

Special order for flagman at Territorial street, Benton Harbor, Michi-

gan.

38. March 9. To W. J. Reed, commissioner of highways, Carp Lake township, Emmet county, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order with plans and specifications for highway crossing in

Carp Lake township over the tracks of the G. R. & I. Ry.

39. March 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and C. M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order permitting telephone company to string wires over the tracks of the D., G. R. & W. R. R. at Madison and Burton avenues,

Grand Rapids, Michigan.

40. March 9. To Chas. E. Bell, proprietor of the Telephone. Exchange, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. at Main, Oak, Fifth and Sixth streets,

Evart, Michigan.

41. March 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. W. Ashley, general manager of the Ann Arbor Railroad Company:

Special order permitting telephone company to string wires over the tracks of the A. A. R. R. at Cadillac, Hobart, Tustin, Leroy, Ashton and

Reed City, Michigan.

42. March 9. To F. A. Forbes, general manager of the Michigan Telephone Company; A. B. Atwater, superintendent of the Grand Trunk Railway system, western division, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to set an additional pole for wires on Milwaukee avenue, near Hastings street, Detroit, Michigan.

43. March 16. To A. Bonning, Monroe, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting A. Bonning to string a private wire line over the tracks of the L. S. & M. S. Ry. in alley between Monroe and Washington streets, Monroe, Michigan.

44. March 16. To G. R. Hurd, manager of the Monroe Electric Light and Power Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting light and power company to string wires over the tracks of the L. S. & M. S. Ry. opposite depot in Monroe, Michigan. 45. March 16. To G. L. Gordon, Hudson, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting G. L. Gordon to string wires (private) over

the L. S. & M. S. Ry. at Wood street, Hudson, Michigan.

46. March 24. To J. Williams, Jr., secretary of the Adrian Telephone Company, and E. A. Gould, superintendent of the eastern division of the Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash R. R. at East Maumee street and Treat road, in

and near Adrian, Michigan.

47. March 30. To G. R. Hurd, manager Monroe Electric Light & Power Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting light and power company to string wires over the tracks of the L. S. & M. S. Ry. to electric light works, Monroe,

Michigan.

48. April 7. To J. B. Ware, manager of the Citizens' Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. south of the city limits, Grand Rapids,

Michigan.

49. April 3. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Blizard, superintendent of the Michigan division of the Cleveland, Cincinnati, Chicago & St. Louis Railway Comtany:

Special order modifying order for stringing wires at intersection of

Broadway with the C., C., C. & St. L. Ry., Niles, Michigan.

50. April 3. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. in the Cleveland Cedar Company's yard, at

Delray, Michigan.

51. April 7. To the Union Terminal Association, Detroit, Michigan: Special order for the stationing and maintaining of a flagman at Military avenue, Detroit, Michigan.

52. April 7. To the Michigan Central Railroad Company:

Special order for the stationing and maintaining of a flagman at Langlois road in the township of Springwells, Michigan.

53. April 7. To the Michigan Central Railroad, Lake Shore & Michigan Southern Railway, and Wabash Railroad Companies:

Special order for the stationing and maintaining of a flagman at Waterman avenue in the township of Springwells, Michigan.

54. April 7. To the Michigan Central Railroad, Lake Shore & Michigan Southern Railway, Grand Trunk Railway, and Wabash Railroad companies:

Special order for the erection, operation and maintenance of an electric alarm bell at Beaubien street, Detroit, Michigan.

55. April 7. To the Michigan Central Railroad, Lake Shore & Michigan Southern Railway, Wabash Railroad, Flint & Pere Marquette Railroad, and Detroit, Grand Rapids & Western Railroad companies:

Special order for the stationing and maintaining of a flagman at Dear-

born road, in the township of Springwells, Michigan.

56. April 20. To F. A. Forbes, general manager of the Michigan Telephone Company, and E. A. Gould, superintendent of the eastern division of the Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash Railroad on Treat road, near city limits, Adrian,

Michigan.

57. April 20. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. R. & I. Ry. at and near Howard City, Morley and Stan-

wood, Michigan.

58. April 20. To D. C. Oakes, manager of the Mutual Telephone Company, and A. B. Atwater, superintendent of the Detroit, Grand Haven & Milwaukee Railway Company:

Special order permitting telephone company to string wires over the tracks of the D., G. H. & M. Ry. near depot at Coopersville, Michigan.

59. April 27. To B. F. McReynold, secretary of the board of police and fire commissioners; Chas. M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company; J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting police and fire commissioners to string wires over the tracks of the D., G. R. & W. Ry., G. R. & I. Ry. and M. C. R. R.

at Second avenue, Grand Rapids, Michigan.

60. May 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Detroit, Grand Haven & Milwaukee Railway Company:

Special order permitting telephone company to string wires over the tracks of the D., G. H. & M. Ry. near railway depot at Nunica, Michigan.

61. May 17. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

M. C. R. R. bridge at Saginaw W. S., Michigan.

62. May 19. To F. A. Forbes, general manager of the Michigan Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Lewis street, Jackson, Michigan.

63. May 19. To Henry Gorton & Son, Waterloo, Michigan, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. (Michigan Air Line) at Stockbridge, Michigan.

64. May 19. To Lima Northern Railway Company:

Special order requiring railway company to build right of way fences in Seneca township, Lenawce county, Michigan.

65. May 19. To Michigan Central Railroad Company:

Special order requiring railroad company to station a flagman at Main street crossing of the railroad in Chelsea, Michigan

66. May 19. To Michigan Central Railroad Company:

Special order requiring railroad company to erect an electric alarm bell at Sophia street crossing of the railroad in Wayne, Wayne county, Michigan.

67. May 19. To Michigan Central Railroad Company:

Special order requiring railroad company to station a flagman at Mason street crossing of the railroad in Dearborn, Wayne county, Michigan.

68. May 19. To Owosso & Corunna Traction Company, and Ann Arbor Railroad Company:

Special order modifying order of June 20, 1896, relative to derailing switches at the Corunna road crossing of the two railroads in Owosso, Michigan.

69. May 10. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on Elm. street, Kalamazoo, and at South End Lumber & Salt Company's yard, Bay City, Michigan.

70. May 19. To Owosso & Corunna Traction Company and Ann Arbor Railroad Company:

Special order approving signaling device at the crossing of the two railroads on Corunna road, Owosso, Michigan.

71. May 20. Saginaw Union Street Railway Company and Michigan Central Railroad Company:

Special order for new crossing frogs at the Genesee avenue crossing of the two railroads, Saginaw, Michigan.

72. May 25. To Chicago & West Michigan Railway Company:

Special order requiring railway company to station a flagman at the Main street crossing of the railroad in Fremont, Michigan.

73. June 1. To M. W. Lott, secretary of the Three Rivers Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in Three Rivers, Michigan.

74. June 1. To M. W. Lott, secretary of the Three Rivers Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on Flint avenue, Three Rivers Michigan.

75. June 1. To D. Eldred, general manager of the Eldred Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at Pavilion and near Scott's station, Michigan.

76. June 1. To D. Eldred, general manager of the Eldred Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of the G. R. & I. Ry. at Vicksburg, Michigan.

77. June 3. To Thomas Carmody, secretary of the Watervliet & Paw Paw Lake Telephone Company, and J. K. V. Agnew, general superintendent of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of C. & W. M. Ry. in Watervliet, Michigan.

78. June 3. To M. W. Lott, secretary of the Three Rivers Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Broadway, Three Rivers, Michigan.

79. June 3. To Detroit Telephone Company and Lake Shore & Michigan Southern Railway Company.

Special order permitting telephone company to string wires over the tracks of L. S. & M. S. Ry. at various places in Detroit, Michigan.

80. Detroit Telephone Company and Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at various places in Detroit, Michigan.

81. June 3. To Detroit Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at various places in Detroit, Michigan.

82. June 3. To Detroit Telephone Company and Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash Railroad at various places in Detroit, Michigan.

83. June 3. To Chicago & West Michigan Railway Company:

Special order revoking order of September 25, 1891, relative to flagman at Thirteenth street, Holland, Michigan.

84. June 3. To Chicago & West Michigan Railway Company:

Special order for C. & W. M. Ry. to station flagman at the crossing of its tracks with West street, Zeeland, Michigan.

85. June 5. To F. A. Forbes, general manager of the Michigan Telephone Company, and Chas. M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order permitting telephone company to string wires over the tracks of D., G. R. & W. R. R. at State street, Alma, Michigan.

86. June 5. To Flint & Pere Marquette Railroad Company:

Special order for the erection of an alarm bell at crossing just north of Clyde station, Michigan.

87. June 8. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. W. Ashley, general manager of the Ann Arbor Railroad Company:

Special order permitting telephone company to string wires over the tracks of A. A. B. B. at State street, Alma, B. Michigan.

88. June 8. To C. H. Roser, general manager of the Detroit & Lima Northern Railway Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting D. & L. N. Ry. to string telegraph wires over the tracks of the L. S. & M. S. Ry. at State street, Adrian, Michigan.

89. June 11. To Detroit Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of L. S. & M. S. Ry. at various places in Detroit, Michigan.

90. June 12. To Oakland Railway Company and Grand Trunk Railway system:

Special order with specifications for construction of crossing at the intersection of the railways at Saginaw street, Pontiac, Michigan.

91. June 12. To Detroit, Grand Haven & Milwaukee Railway Company:

Special order for the erection and maintenance of an electric alarm bell at Wesson street crossing, Pontiac, Michigan.

92. June 12. To Fred Waters, commissioner of highways, Beaverton township, Gladwin county, Michigan, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing in the

township of Beaverton, county of Gladwin, Michigan.

93. June 15. To Twin City Telephone Company and Cleveland, Cin-

cinnati, Chicago & St. Louis Railway Company:

Special order permitting telephone company to string wires over the tracks of the C., C., C. & St. L. Ry. at various places, Benton Harbor, Michigan.

94. June 22. To Inter Urban Railway Company and Michigan Cen-

tral Railroad Company:

Special order approving derailing and signaling device at the crossing of the two roads, north of the village of Zilwaukee, county of Saginaw, Michigan.

95. June 23. To C. W. Swaverly, manager of the Swaverly Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of C. & W. M. Ry. at Barker's Creek, Michigan.

96. June 25. To Fred G. Waters, commissioner of highways, Beaverton township, Gladwin county, Michigan, and S. T. Crapo, general manager Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing in the

township of Beaverton, county of Gladwin, Michigan.

97. June 26. To Twin City Telephone Company and Vandalia Line: Special order permitting telephone company to string wires over the tracks of the Vandalia Line at Wayne street, St. Joseph, Michigan.

98. June 28. To Michael Speck, commissioner of highways, Beau-

grand township, Chebovgan county, Michigan:

Special order with plans and specifications for highway crossing in

township of Beaugrand, Cheboygan county, Mich.

99. June 28. To F. A. Forbes, general manager of the Michigan Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at State road, north of Traverse City, Michigan.

100. June 28. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of G. R. & I. Ry. at East Vine street, Kalamazoo, Michigan.

101. July 1. To L. K. Stein, commissioner of highways, township of Blumfield, county of Saginaw, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order with plans and specifications for highway crossings in the

township of Blumfield, county of Saginaw, Michigan.

102. July 1. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. C. Potter, secretary of the Chicago, Kalamazoo & Saginaw Railway Company:

Special order permitting telephone company to string wires over the tracks of the C., K. & S. Ry. at Walbridge street, Kalamazoo, Michigan.

103. July 1. To Lansing Water Works & Electric Light Board, Michigan Central Railroad Company and Detroit, Grand Rapids & Western Railroad Company:

Special order permitting board to string wires over the tracks of the M. C. R. R. and D., G. R. & W. R. R. on Michigan avenue, Lansing, Michigan.

104. July 3: To People's Telephone Company, Carleton, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of L. S. & M. S. Ry. at Rockwood, Michigan.

105. July 3. To Detroit Telephone Company and Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

tracks of F. & P. M. R. R. at Front street, Monroe, Michigan.

106. July 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of G. R. & I. Ry. at and near Kingsley, Michigan.

107. July 9. To Ann Arbor Railroad Company:

Special order for railroad company to station and maintain a flagman at the intersection of railroad with Maple and Pine streets, McBain, Michigan.

108. July 9. To the Grand Rapids & Indiana Railway Company and Flint Pere Marquette Railroad Company:

Special order for protection at Slosson avenue and Main street, Reed City, Michigan.

109. July 9. To commissioner of highways township of Plymouth, county of Wayne, Michigan, and Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing south of the village of Northville, Michigan.

110. July 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of the G. R. & I. Ry. at Beaubien street, Petoskey, Michigan.

111. July 14. To T. F. Ahern, general superintendent of the New State Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Huron street, Ypsilanti, Michigan.

112. July 17. To Twin City Telephone Company and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at various places in the State of Michigan.

113. July 20. To A. A. Patterson, Jr., president of the St. Joseph Valley Railway Company:

Special order authorizing the railway company to resume operation and transportation of passengers over its lines.

114. July 19. To F. T. Bisbee & Co., Athens, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. on highway at Clarendon, Michigan.

115. July 21. To Twin City Telephone Company and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at various places in the State of Michigan.

116. July 24. To Twin City Telephone Company and S. T. Blizard, superintendent of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order permitting telephone company to string wires over the tracks of the C., C., C. & St. L. Ry. at Empire avenue, near city limits

of Benton Harbor, Michigan.

117. July 24. To H. W. Carey, assistant general manager of the Manistee & Luther Railroad Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting M. &. L. R. R. Co. to string wires over the tracks of the C. & W. M. Ry. at Florence, near Doubling, Manistee county,

Michigan.

118. July 24. To H. C. Mason, superintendent Electric Light Company, Benton Harbor, Michigan, and S. T. Blizard, superintendent of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order permitting electric light company to string wires over the tracks of the C., C., C. & St. L. Ry. near depot at Benton Harbor,

Michigan.

119. August 2. To R. D. White, Williamsburg, Michigan, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting R. D. White to string wires over the tracks of the C. & W. M. Ry. east of depot in Williamsburg, Michigan.

120. August 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. on Main street, in Galien, Michigan.

August 5. To Lake Shore & Michigan Southern Railway Company:

Special order for railroad company to station and maintain a flagman

at West street crossing, Hillsdale, Michigan.

122. August 9. To T. F. Ahern, general superintendent of the New State Telephone Company, and W. H. Canniff, general manager of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of the L. S. & M. S. Ry. near Wyandotte, Michigan.

August 10. To Charles E. Kane, commissioner of highways, township of Martiney, Mecosta county, Michigan, and Charles M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order with plans and specifications for highway crossing in

Martiney township, Mecosta county, Michigan.

124. August 11. To Detroit, Grand Haven & Milwaukee Railway

Special order for railway company to station and maintain a flagman at LaFayette street, and an electric bell at Clancy street, Grand Rapids, Michigan.

125. August 11. To Detroit, Grand Rapids & Western Railroad Com-

pany and Detroit, Grand Haven & Milwaukee Railway Company:

Special order for railroad companies to station and maintain a flag-

man at Steel street crossing, Ionia, Michigan.

126. August 12. To Wm. McGregor, Jr., Birch Run, Michigan, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting Wm. McGregor, Jr., to string one wire over

the tracks of the F. & P. M. R. R. at Birch Run, Michigan.

August 12. To Twin City Telephone Company and Milwaukee, Benton Harbor & Columbus Railway Company:

Special order permitting telephone company to string wires over the tracks of the M., B. H. & C. Ry. on Empire avenue, Benton Harbor,

Michigan.

128. August 17. To W. H. Gilbert, managing director of the Valley Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. at various places in the State of Michigan.

129. August 17. To W. H. Gilbert, managing director of the Valley Telephone Company, and A. B. Atwater, superintendent of the Cincinnati, Saginaw & Mackinaw Railway Company:

Special order permitting telephone company to string wires over the

tracks of the C., S. & M. Ry. at Salzburg and Saginaw, Michigan.

August 17. To W. H. Gilbert, managing director of the Valley Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at various places in the State of Michigan.

131. August 24. To Saugatuck & Ganges Telephone Company (limited) and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of the C. & W. M. Ry. at Fennville, Michigan.

132. August 26. To M. A. Porter, secretary of the Northville Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the F. & P. M. R. R. near Novi, Michigan.

133. August 26. To D. C. Oakes, manager of the Mutual Telephone Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at Washington and Seventh streets, Grand

Haven, Michigan.

134. August 28. To J. H. Tripp, manager of the Kibbie Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wire over the

tracks of the M. C. R. R. one mile west of Grand Junction, Michigan.

135. August 28. To Chicago & West Michigan Railway Company and Manistee & Luther Railroad Company:

Special order approving interlocking device at the crossing of the

two railroads at Florence, Michigan.

136. September 2. 'To Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order for repairing and reconstruction of right of way fence

along the line of said railway in the State of Michigan.

137. September 2. To Toledo, Ann Arbor & North Michigan Railway Company:

Special order for railway to repair interlocking device at its crossing

with the F. & P. M. R. R. at Clare, Michigan.

138. September 2. To Indiana & Lake Michigan Railway Company: Special order for railway company to fence right of way through the property of James LaMunion, in Berrien county, Michigan.

139. September 2. To George W. Finch, owner of the Finch Telephone Exchange, and John M. Whitman, general manager of the Chicago

& North Western Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & N. W. Ry. at various places in the State of Michigan.

140. September 3. To Berridge & Berridge, Orion, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting said firm to string wire over the tracks of the M. C. R. R. near depot, Orion, Michigan.

141. September 9. To the Valley Telephone Company and H. B.

Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on Fremont avenue, between First and Second streets, West Bay City, Michigan.

142. September 9. To the Valley Telephone Company and A. B. Atwater, superintendent of the Cincinnati, Saginaw & Mackinaw Railroad Company:

Special order permitting telephone company to string wires over the tracks of the C., S. & M. R. R. at various crossings in the city of West

Bay City, Michigan.

143. September 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of the L. S. & M. S. Ry. in Tecumseh, Michigan.

144. September 11. To Charles C. Cutting, Steward of Michigan Asylum for the Insane, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting the stringing of an electric light wire over the tracks of the M. C. R. R. near Asylum, Kalamazoo, Michigan.

145. September 14. To New State Telephone Company and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at Gardendale, Aitkins and Croswell, Michigan.

146. September 14. To New State Telephone Company and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at various places in the State of Michigan.

147. September 14. To New State Telephone Company and A. B. Atwater, superintendent of the Grand Trunk Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at South Lyon, Oakland county, Michigan.

148. September 14. To New State Telephone Company and E. A. Gould, superintendent of the eastern division of the Wabash Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the Wabash R. R. in Springwells, Michigan.

149. September 14. To New State Telephone Company and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of L. S. & M. S. Ry. at Rockwell and Ecorce, Michigan.

150. September 24. To South Haven & Eastern Railroad Company: Special order for railroad company to build right of way fence through the property of H. D. Van Camp, Hartford township, VanBuren county, Michigan.

151. September 25. To Berlamont Telephone Company and H. B.

Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. near Berlamont and Bloomingdale, Michigan.

152. September 27. To the Valley Telephone Company and A. B. Atwater, superintendent of the Cincinnati, Saginaw & Mackinaw Railroad Company:

Special order permitting telephone company to string wires over the tracks of C., S. & M. R. R. at various places in West Bay City, Michigan.

153. September 27. To the Valley Telephone Company and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at First street, West Bay City, Michigan.

154. September 28. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at Bennington and Grosse Isle, Michigan.

155. September 30. To New State Telephone Company and Charles M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order permitting telephone company to string wires over the tracks of the D., G. R. & W. R. R. at Salem, Green Oak and South Lyon, Michigan.

156. October 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at Elm street, Three Oaks, Michigan.

157. October 4. To New State Telephone Company and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. near and south of Holly, Michigan:

158. October 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. on Welch street, Hillsdale, Michigan.

159. October 5. To Peter Cody, commissioner of highways, township of Pinconning, county of Bay, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order with plans and specifications for highway crossing in township of Pinconning, county of Bay, Michigan.

160. October 5. To Michigan Central Railroad Company:

Special order for erection and maintenance of electric alarm bell east of Jones, Newberry township, Cass county, Michigan.

161. October 6. To New State Telephone Company and A. B. Atwater, superintendent of the Grand Trunk Railway, western division: Special order permitting telephone company to string wires over the

tracks of the G. T. Ry. near Amy and Rochester, Michigan.

162. October 6. To New State Telephone Company and H. W. Ashley, general manager of the Ann Arbor Railroad Company:

Special order permitting telephone company to string wires over the tracks of the A. A. R. R. one-half mile north of Monroe Junction, Michigan.

163. October 7. To W. J. Jennings, commissioner of highways, township of Wise, county of Isabella, Michigan, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing in township of Wise, county of Isabella, Michigan.

164. October 8. To Detroit Telephone Company:

Special order for the removal of unlawfully strung wires at the intersection of the Michigan Central Railroad Company's tracks and Hastings street, Detroit, Michigan.

165. October 8. To Duluth, South Shore & Atlantic Railway Company and Chicago & North Western Railway Company:

Special order requiring targets to be placed at the crossing of the two roads one-half mile west of Negaunee, Michigan.

166. October 8. To Duluth, South Shore & Atlantic Railway Company:

Special order requiring construction of depot and warehouse at Michigamme, Michigan.

167. October 8. To Duluth, South Shore & Atlantic Railway Company:

Special order requiring construction of depot and warehouse at Munising Junction, Michigan.

168. To Duluth, South Shore & Atlantic Railway Company:

Special order requiring construction of depot and warehouse at Seney, Michigan.

169. To Ann Arbor Railroad Company:

Special order for the repair and operation of interlocking plant at crossing of A. A. R. R. and F. & P. M. R. at Clare, Michigan.

170. October 9. To Duluth, South Shore & Atlantic Railway Company:

Special order for the repairing and rebuilding of bridge No. 157 west of Munising Junction, county of Alger, Michigan.

171. October 9. To Duluth, South Shore & Atlantic Railway Company:

Special order for the repairing and rebuilding of bridge No. 158 west of Munising Junction, county of Alger, Michigan.

172. October 9. To Duluth, South Shore & Atlantic Railway Company:

Special order for the repairing and rebuilding of bridge No. 10, one and one-half miles east of Eckerman, county of Chippewa, Michigan.

173. October 9. To Duluth, South Shore & Atlantic Railway Company:

Special order for the repairing and rebuilding of bridge No. 174, east of Deerton, county of Alger, Michigan.

174. October 11. To Ira Hutchins, proprietor of Fennville Electric Light Works, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting electric company to string wires north of depot in Fennville, Michigan.

175. October 11. To New State Telephone Company and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at various places in the State of Michigan.

176. October 11. To New State Telephone Company and A. B. Atwater, superintendent of the Grand Trunk Railway, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at various places in the State of Michigan.

177. October 11. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. R. & I. Ry. at various places in the State of Michigan.

178. October 12. To Lake Shore & Michigan Southern Railway Company, Michigan Central Railroad Company and Wabash Railroad Company:

Special order for the L. S. & M. S. Ry., M. C. R. R. and W. R. R. to station and maintain a flagman at the intersection of Hastings street with the tracks of said companies, in the city of Detroit, Michigan.

179. October 18. To New State Telephone Company and Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of G. T. Ry. at Owosso, Perry and one mile east of Perry, Michigan.

180. October 18. To F. A. Forbes, general manager of the Michigan Telephone Company, and F. B. Drake, general manager of the Cincinnati Northern Railroad Company:

Special order permitting telephone company to string wires over the tracks of the C. N. R. R. one mile north of Waldron, and five miles north of Prattsville, Michigan.

181. October 18. To New State Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in the State of Michigan.

182. October 19. To New State Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string wires over M. C. R. R. on Fort street, Toledo division, Detroit, Michigan.

183. October 21. To West Michigan Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Hopkins Station, Michigan.

184. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string one wire over the tracks of M. C. R. R. at Lawnsdale avenue, Detroit, Michigan.

185. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string one telephone wire over the tracks of the L. S. & M. S. Ry. at Lawnsdale avenue, Detroit, and on highway next east of Cadmus Station, Michigan.

186. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string one telephone wire over the tracks of the G. T. Ry. one mile north of station at Mt. Clemens, Michigan.

187. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and E. A. Gould, superintendent of eastern division

of the Wabash Railroad Company:

Special order permitting telephone company to string one telephone wire over the tracks of Wabash R. R. at Lawnsdale avenue, Detroit, Michigan.

188. October 22. To Flint & Pere Marquette Railroad Company and

Manistee & North-Eastern Railroad Company:

Special order for renewal of interlocking plant at the intersection of the tracks of the two railroads at Manistee, Michigan.

189. October 26. To Tecumseh Telephone Company and Lake Shore

& Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in the village of Tecumseh, Michigan.

190. October 26. To Tecumseh Telephone Company and Detroit,

Toledo & Milwaukee Railroad Company:

Special order permitting telephone company to string wires over the tracks of the D., T. & M. R. R. at various places in Tecumseh, Michigan.

191. October 26. To John H. Tripp, manager of the Kibbie Telephone Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string one telephone wire over the tracks of the C. & W. M. Ry. on highway north of depot

at Grand Junction, Michigan.

192. October 27. To Fennville Electric Light Works and Chicago. & West Michigan Railway Company:

Special order permitting telephone company to string one electric light wire over the tracks of the C. & W. M. Ry. on highway north of depot at Fennville, Michigan.

193. October 27. To Benton Harbor & Eastman Springs Street Railway Company, Cleveland, Cincinnati, Chicago & St. Louis Railway Company, and Milwaukee, Benton Harbor & Columbus Railway Company:

Special order approving street railway company's crossing of the tracks of C., C., C. & St. L. Ry. and M., B. H. & C. Ry. on Main street, Benton Harbor, Michigan, and providing for installation, operation and maintenance of derailing system.

194. October 28. To Detroit Telephone Company and Michigan Cen-

tral Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. at various places in Detroit, Michigan.

195. October 30. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over the tracks of the M. C. R. R. near freight house, Bay City, Michigan.

196. October 30. To the Valley Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string telephone wires over the tracks of the M. C. R. R. at various places in West Bay City, Michigan.

197. October 30. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand

Trunk Railway system, western division:

Special order permitting telephone company to string two wires over the tracks of the G. T. Ry. on first street east of Bancroft station, Michigan.

198. October 30. To the Valley Telephone Company and Grand

Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at Main street, West Bay City, Michigan.

199. November 1. To Monroe Gas & Electric Light Company and

Lake Shore & Michigan Southern Railway Company:

Special order permitting gas and electric light company to string two electric light wires between Harrison and Cass streets in Monroe, Michigan.

200. November 2. To Lake Shore & Michigan Southern Railway

Company and Detroit & Lima Northern Railway Company:

Special order approving interlocking switch and signal system at the

crossing of the two railways in Adrian, Michigan.

201. November 3. To C. Corbett, district superintendent of the Western Union Telegraph Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting W. U. T. company to string wires over the

L. S. & M. S. Ry. between Alexis and Delray, Michigan.

202. November 3. To Detroit Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

M. C. R. at various places in Detroit, Michigan.

204. November 5. To Detroit Telephone Company and Lake Shore & Michigan Southern Railway Company.

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in Detroit, Michigan.

205. November 6. To James E. Tryon, general manager of the Michigan Auxiliary Fire Alarm Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting fire alarm company to string one wire over

the G. T. Ry. in Detroit, Michigan.

206. November 6. To James E. Tryon, general manager of the Michigan Auxiliary Fire Alarm Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting fire alarm company to string one wire over

the tracks of the M. C. R. R. at Clay avenue, Detroit, Michigan.

207. November 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. R. & I. Ry. at various places in the State of Michigan.

208. November 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over the tracks of the M. C. R. R. at Scotten avenue, Detroit, Michigan.

209. November 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string two wires over

the G. T. Ry. at Vine street, Vicksburg, Michigan.

210. November 6. F. A. Forbes, general manager of the Michigan Telephone Company, and E. H. Canniff, general manager of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string two wires over the tracks of the L. S. & M. S. Ry. at Kalamazoo avenue, Kalamazoo, Michigan.

211. November 8. To Detroit Telephone Company and Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Hastings street and Cass avenue, Detroit, Michigan.

212. November 8. To Detroit Telephone Company and Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at various places in Detroit, Michigan.

213. November 8. To John H. Tripp, manager of the Kibbie Telephone Company, and Chas. M. Heald, general manager of the Chicago. & West Michigan Railway Company:

Special order permitting telephone company to string one wire overthe tracks of the C. & W. M. Ry., near Monroe street, Bangor, Michigan.

214. November 9. To Northwestern Ohio Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string one wire overthe tracks of the L. S. & M. S. Ry. at Jasper, Michigan.

215. November 9. To Northwestern Ohio Telephone Company and Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash Railroad three miles south of Adrian, Michigan.

216. November 12. To Nathan Leffer, commissioner of highways, Gibson township, Bay county, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order with plans and specifications for highway crossing in Gibson township, Bay county, Michigan.

217. November 12. To New State Telephone Company & Ann Arbor-Railroad Company.

Special order permitting telephone company to string wires over the tracks of the A. A. R. R. at Grand River wagon road, three-quarters mile east of Howell, Michigan.

218. November 16. To Flint & Pere Marquette Railroad Company: Special order for railroad company to station and maintain a flagman at Main street crossing in the village of Plymouth, Michigan.

219. November 16. To Montcalm County Telephone Association and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at various places in the State of Michigan.

220. November 16. To Montcalm County Telephone Association and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. four miles west of Sheridan, Michigan.

221. November 16. To Andrew Wallin, commissioner of highways, Mellen township, Menominee county, Michigan, and J. A. Whitman, general manager of the Chicago & Northwestern Railway Company:

Special order with plans and specifications for highway crossing in

Mellen township, Menominee county, Michigan.

222. November 17. To the city of West Bay City and Grand Trunk Railway system, western division:

Special order permitting said city to string electric light wires over

the tracks of the G. T. Ry. in West Bay City, Michigan.

223. November 17. To the city of West Bay City and Michigan Central Railroad Company:

Special order permitting said city to string electric light wires over the tracks of the M. C. R. R. at various places in West Bay City, Michigan.

224. November 18. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string two wires over the tracks of the G. T. Ry. at first street east of station at Attica, Michigan

225. November 18. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over the tracks of the M. C. R. R. west of depot at Dayton, Michigan.

226. November 20. To Pontiac, Oxford & Northern Railroad Company:

Special order for repairs and renewals to be made in track and bridge structures of said railroad within thirty days.

227. November 24. To New State Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string four wires over the tracks of the L. S. & M. S. Ry. in Maybee, Michigan.

228. November 26. To F. A. Forbes, general manager of the Michigan Telephone Company, and M. V. Meredith, general manager of the South Haven & Eastern Railroad Company:

Special order permitting telephone company to string wires over the tracks of the S. H. & E. R. R. at various places in the State of Michigan.

229. November 26. To F. A. Forbes general manager of the Michigan Telephone Company, and E. A. Gould, superintendent of eastern division of Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of Wabash R. R. at Leonard street, Detroit, Michigan.

230. November 26. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over

the tracks of M. C. R. R. at Nepsing street, in Lapeer, Michigan.

231. November 26. To F. A. Forbes, general manager of the Michigan Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of C. & W. M. Ry. two miles north of Hartford, Michigan.

232. November 26. To J. Williams, Jr., secretary of the Adrian Telephone Company, and J. R. Megrue, general manager of the Detroit & Lima Northern Railway Company:

Special order permitting telephone company to string wires over the

tracks of D. & L. N. Ry. two miles north of Adrian, Michigan.

233. November 26. To New State Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over

the tracks of M. C. R. R. on Lynn street, Owosso, Michigan.

234. November 29. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string two wires over

the tracks of F. & P. M. R. R. on Caroline street, Milford, Michigan.

235. November 30. To James E. Tyron, general manager of the Michigan Auxiliary Fire Alarm Company, and E. A. Gould, superintendent of eastern division of the Wabash Railroad Company:

Special order permitting fire alarm company to string one wire over the tracks of Wabash R. R. at Grand River avenue, Detroit, Michigan.

236. November 30. To James E. Tyron, general manager of the Michigan Auxiliary Fire Alarm Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting the fire alarm company to string one wire over the tracks of the M. C. R. R. at Grand River avenue, Detroit, Michigan

237. November 30. To James E. Tryon, general manager of the Michigan Auxiliary Fire Alarm Company, and W. H. Canniff, general manager of the Lake Shore & Michigan Southern Railway Company:

Special order permitting fire alarm company to string one wire over the tracks of the L. S. & M. S. Ry. at Grand River avenue, Detroit, Michigan.

238. November 30. To James E. Tyron, general manager of the Michigan Auxiliary Fire Alarm Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting fire alarm company to string one wire over the tracks of G. T. Ry. at Grand River avenue, Detroit, Michigan.

WIRE INSPECTIONS—1896.

The provisions of act No. 171 of the session laws of 1893, makes it unlawful for any corporation or person to string any wire, electric or other, over the tracks of any railroad company, except at such places and in such manner as shall be approved by the Commissioner of Railroads. It also makes it incumbent upon any corporation desiring so to string any wire, to give to the railroad company ten days notice in writing of the place where and the manner in which it desires to string the same, and the place where and the time when it will apply to the Commissioner of Railroads for his approval. Section 6 of the same act makes it the duty of the Commissioner of Railroads to inspect all points where the tracks of the railroad companies are crossed by wires, and to order the same raised and such other change or changes to be made as he may deem necessary for protection against accident. This act also requires all wires strung over the railroad companies tracks to be at least twenty-two feet above the railroad grade.

During the past year many applications have been made to string wires over the tracks of railroad companies, and in each instance, when permission has been granted, an order has been made with specifications attached setting forth the manner in which the wire must be strung, the kind of material used, the length of the poles, the number of cross-arms on each pole, number of wires on each cross-arm, the kind of pins required, the height of the wires above the railroad grade, and such further and other requirements as the peculiar nature of the location demands, in order to secure the greatest possible safety to the public.

A careful and thorough inspection has been made of the places where telegraph, telephone, trolley and electric light wires are strung over the tracks of the railroad companies, and while some have been found in an unsafe condition and not in conformity with the provisions of the statute, yet in almost every instance, as soon as the corporation owning the wires has been notified of the defect, a hearty and speedy compliance with the requirements of the statute has been the result.

BATTLE CREEK.

The trolley wires of the Battle Creek Street Railway were found to be less than the statutory height above the railroad track at the following points:

At the M. C. R. R. crossing on Maple street, 21 feet and 5 inches. At the G. T. Ry. crossing on Marshall street, 21 feet and 7 inches.

At the G. T. Ry. crossing on South Jefferson street, 21 feet and 9 inches.

At the D., T. & M. R. R. crossing on South Jefferson street, 21 feet and 9 inches.

At the G. T. Ry. crossing on Kendall street, 20 feet and 9 inches.

FIRE ALARM WIRES.

The fire alarm wires over the M. C. R. R. crossing on Maple street are on single cross-arms, with telephone wires on brackets on the same poles, which are 100 feet apart.

ELECTRIC LIGHT WIRES.

Battle Creek Electric Light Company's wires at the M. C. crossing on Marshall street are attached to a board nailed to a pole and the cross-arms nailed to the board.

TELEPHONE AND TELEGRAPH WIRES.

The Michigan Telephone Company's wires over the G. T. Ry. track at the east end of the bridge, two blocks east of depot, are attached to a small board fastened to the railway signal post. The private telephone wire over the G. T. tracks at the east end of Main street is improperly constructed.

The Battle Creek Electric Light Co., the Citizen Electric Light Co., and the Michigan Telephone Company, do not use steel pins nor double cross-arms, and all poles are more than the statutory distance apart.

BAY CITY.

The trolleys of the Bay City Consolidated Street Ry. Co. at the following points are not the proper height above the railroad tracks:

At the M. C. crossing on Broadway and 27th streets, 20 feet, 4 inches.

At the F. & P. M. crossing on 34th street, 20 feet, 2 inches.

At the F. & P. M. crossing on 1st street, 19 feet, 10 inches.

At the F. & P. M. crossing on Central avenue, 20 feet 8 inches.

At the F. & P. M. crossing on Columbia avenue, 21 feet, 11 inche

At the F. & P. M. crossing on Columbia avenue, 21 feet, 11 inches. At the F. & P. M. crossing on 34th street, 20 feet, 2 inches.

At the F. & P. M. siding on Atlantic street, 21 feet, 7 inches.

ELECTRIC WIRES.

The Detroit Mill Company's wires over the F. & P. M. and D. & M. Railroads are on small sawed poles nailed to building, and short posts set in ground.

The Eddy Sheldon Company's wires over the F. & P. M. and D., G. H. & M. Railroads are strung on small single cross-arms and brackets.

The Bay City Electric Company's wires over the F. & P. M. and D., G. H. & M. crossing, near McEwan Bros. & Company's factory; at M. C. tracks near Emer, Kann & Company's mill; at M. C. crossings on Park, Garfield, Van Buren & Madison streets and Madison avenue; and at the F. & P. M. crossings on 3d, 5th, 9th, 13th and 16th streets, are all on single cross-arms and brackets nailed to top of the poles.

TELEPHONE AND TELEGRAPH WIRES.

The W. U. Telegraph wires at the M. C. crossing near the Bay county fair grounds are on single cross-arms.

The Michigan Telephone Company's wires at D., G. H. & M. crossing, north of M. C.; at water works crossing; at McEwen Bros. and Co. crossing of the F. & P. M.; at F. & P. M. belt line crossing; at Jefferson street and Columbia crossing of the F. & P. M.; and at M. C. crossings on Lafayette and South avenues, are all on single cross-arms. Same company's wires at the M. C. crossings on Madison street and Washington avenue, and the F. & P. M. crossing on First street, are strung on brackets.

The fire alarm wires at M. C. crossings on Jefferson street and Lafayette avenue are on small boards and brackets.

BAY CITY (WEST SIDE).

The West Bay City Electric Company's wires at the M. C. round house; at M. C. crossing on Mount street, and also Ross Bradley Company's crossing of the C., S. & M. are strung on brackets.

The fire alarm wires near M. C. roundhouse; at crossing four blocks north of Washington street, and at C., S. & M. crossings on Mount, 4th, Walnut and Hart streets, are fastened on brackets.

The W. U. Telegraph wires at C., S. & M. crossing on Washington street, on brackets.

The Michigan Telephone Company's wires at M. C. crossings on Midland, Switzer, Eastwood, State, and near roundhouse, are on brackets.

BENTON HARBOR AND ST. JOSEPH.

Michigan Telephone Company, at all railroad crossings, use single cross-arms and wooden pins.

The Benton Harbor & St. Joseph Railway Company's electric light wires are on single cross-arms and brackets at all railroad crossings.

DETROIT.

The trolley wires at the following crossings are defective:

At the G. T. crossing on Champlain street, 21 feet 7 inches above

At the G. T. crossing on Forest street, 21 feet 8 inches above rail.

At M. C. Belt Line crossing on Kercheval street, 21 feet 3 inches above rail.

- At M. C. Belt Line crossing on Champlain street, 21 feet 4 inches above rail.
- At D., G. R. & W. crossing on Michigan avenue, 20 feet 7 inches above rail.
 - At M. C. crossing on Fort street, 21 feet 6 inches above rail.
 - At M. C. crossing on River street, 21 feet 10 inches above rail.
 - At L. S. & M. S. crossing on Fort street, 21 feet 6 inches above rail.
- At Union Depot Co. track crossing, west of depot, 21 feet 5 inches above rail.
 - At East River track on River street, 20 feet 2 inches above rail.
- At Union Depot Co.'s tracks on River street, 20 feet 2 inches above rail.

ELECTRIC LIGHT WIRES.

The Detroit Electric Light Company's wires over the G. T. on Ottawa street, Caufield and Alexandrine streets; the M. C. crossing on Gratiot avenue, Foundry and John R. streets; the D., G. R. & W. crossings on Michigan avenue and on Lieb and Wight streets; the Electric Light Company's wires at the M. C. crossings on Buchanan, 12th streets, Clark, Porter, Michigan, Livermore, Rudell, Milwaukee, Woodward, Greenwood and Holden avenues, and Grand boulevard; the Union Depot track crossings on Clark, Moran and Junction avenues are not strung in accordance with the statutes.

TELEPHONE AND TELEGRAPH WIRES.

The Michigan Telephone Company's wires at the following crossings do not comply with the provisions of the law:

At M. C. crossings on Champlain, Wight, Russell, John R., Greenwood, N. Lincoln, 20th, Fort, 17th, and Porter streets, Gratiot, Milwaukee, Cass, Michigan and Dix avenues, and Grand boulevard; also at the G. T. crossings on Antietam, Adelaide streets, and Gratiot, Mack, Alexandria and Michigan avenues; also Union Depot Company's tracks on Junction avenue, 7th and River streets.

The wires of the Detroit and the New State Telephone Company at the following points were found defective:

At G. T. crossing between Larned and Congress and on Riopelle street; at M. C. crossings on Wight and Fort streets, and at the Union Depot Company's tracks on River and 6th streets.

The city fire alarm wires at the following crossings were improperly constructed:

At G. T. crossings on Michigan, Gratiot, Trombley avenues, Atwater, Macomb, Alfred, Beaubien streets; at the M. C. crossings on Gratiot, Milwaukee, Cass, Holden, Trumbull, Maybury, Underwood and Clark avenues, 12th, 20th, 24th, Buchanan, Wight, Hastings and John R. streets and Grand boulevard; also the Union depot crossing on Minnie street.

In addition to the above there were some wires belonging to the W. U. Telegraph Co., Edison Illuminating Co., Brush Electric Co., and the G. T. Railroad Co., over railroad tracks, that were found defective.

EATON RAPIDS.

Western Union Telegraph Company's wires at the M. C. and L. S. & M. S. R. crossing, are fastened on brackets; same company's wires over L. S. & M. S. elevator tracks, on single cross-arms, and brackets on building.

New State Telephone Company's wires at same place are on single cross arms and buttons nailed to building.

FLINT.

People's Electric Light Company's wires near G. T. depot are strung over tracks on single cross-arms, with poles 200 feet apart. Same company's wires at east end of G. T. yards, on Avont street; at F. & P. M. crossing to electric plant; at F. & P. M. crossing on Kearsly street; at viaduct south of F. & P. M. depot; at G. T. crossing of Flint Wagon Works track, are all strung on single cross-arms and brackets.

TELEPHONE AND TELEGRAPH WIRES.

W. U. Telegraph Company's wires at G. T. crossing on Saginaw street are on single cross-arms.

Michigan Telephone Company's wires at crossing of G. T. and Saginaw streets; at F. & P. M. crossing on Second street; at F. & P. M. crossing on Kearsly street; at crossing south of F. & P. M. depot; and crossing near Flint Wagon Works over G. T., are all improperly constructed, on single cross-arms and brackets.

Fire alarm wires at G. T. crossing on Avont street; at F. & P. M. planing mill siding on same street, and wire running to alarm box No. 18 are all on brackets and small boards.

FOWLERVILLE.

Electric light wires over D., G. R. & W. R. R., near depot, are strung on single cross-arms, with poles 100 feet apart.

HOLLAND.

Electric light wires belonging to city of Holland on 8th street and 10th street crossings of C. & W. M. R. R. are constructed on single cross-arms, with wooden pins, and poles 200 feet apart.

The Fire Alarm and Michigan Telephone Company's wires are also on single cross-arms and wooden pins.

LUDINGTON.

The Electric Light Company's wires over F. & P. M. tracks, near depot and near engine house, are strung on single cross-arms and fastened with wooden pins. Michigan Telephone Co.'s wires at F. & P. M. yards near the dock, and South James street crossing near depot, are improperly strung.

HOWELL.

Electric wires at D., G. R. & W. R. R. crossings, near depot, are on single cross-arms with wooden pins.

GRAND RAPIDS.

The Grand Rapids Consolidated Street Railway Company's trolleys were found too low at the following points:

- At D., G. R. & W. crossing on South Division street, 21 feet 6 inches. C. & W. M. (Phoenix side track) crossing on West Fulton, 20 feet 1 inch.
 - C. & W. M. crossing on West Fulton, 20 feet 6 inches.
 - C. & W. M. crossing on Shawmut avenue, 20 feet 8 inches.
 - C. & W. M. crossing on West Leonard street, 21 feet 10 inches.
 - C. & W. M. crossing on Grandville avenue, 20 feet 5 inches.
 - C. & W. M. crossing on Prescott street, 20 feet 10 inches.
 - (†. R. & I. crossing on Shawmut avenue, 20 feet 8 inches.
 - G. R. & I. crossing on West Leonard street, 21 feet 10 inches.
 - D., G. H. & M. crossing on Quimby street, 21 feet 1 inch.

IONIA.

The Ionia Electric Light Company's wires at the D., G. H. & M. crossings on Steel, Welton, Jackson and Mill streets, are all strung on single cross arms and wooden pins.

The Michigan Telephone Company's wires at the D., G. H. & M. crossing on Dexter street, and at the D., G. R. & W. crossing on Jefferson avenue, are strung on single cross-arms.

The W. U. Telegraph Co.'s wires at the D. G. R. & W. crossing on Mill street are strung on single cross-arms.

The fire alarm wires at all railroad crossings are defective.

JACKSON.

The electric wires at the following points are on single cross-arms and fastened with wooden pins, and do not comply with the statute in regard to the distance between the poles:

At M. C. crossings on North, Ingham streets, and Elm and Warren avenues, and at G. T. crossing on Ganson street.

The Michigan Telephone Company's wires at G. T. and M. C. crossings on Ganson street are strung on single cross-arms with brackets.

KALAMAZOO.

The Citizens' Street Railway Company's trolleys at the following points do not comply with the law:

At G. R. & I. crossing on East Man street, 21 feet 2 inches.

At L. S. & M. S. crossing on East Main street, 21 feet 8 inches.

At L. S. & M. S. crossing on Portage street, 21 feet 4 inches.

At M. C. crossing on East avenue, 20 feet and 6 inches.

At M. C. crossing on West Main street, 21 feet 5 inches.

At M. C. crossing on North street, 21 feet 2 inches.

The W. U. Telegraph Co., G. R. & I. Telegraph Co., Kalamazoo Telephone Co., and Electric Light Company's wires at all points where they cross railroads, are not strung in accordance with the statute.

MANISTEE.

The Manistee, Filer City & East Lake Railway Company's wires (trolley) at the following points are too low:

At M. & G. R. crossing on 8th street, 18 feet 2 inches.

(Feed wires at same point 21 feet 6 inches.)

At F. & P. M. crossing, three blocks east of depot, 20 feet 10 inches.

The electric wires at the M. & N. E. shops and at the River crossings are on single cross-arms, brackets and wooden pins.

The Michigan Telephone and W. U. Telegraph Company's wires at River street crossing of the M. & N. E. are on single cross-arms and brackets.

MUSKEGON.

The Muskegon Street Railway trolleys at the following points are not the proper distance above the tracks:

At C. & W. M. crossing on Ottawa street, 20 feet 6 inches. At C. & W. M. crossing on Western avenue, 20 feet 1 inch.

At C. & W. M. crossing at street railway shops, 17 feet 6 inches.

At C. & W. M. crossing at Muskegon Steel Works, 17 feet 6 inches.

At C. & W. M. crossing at Lake Michigan Park track, 17 feet 6 inches.

At T., S. & M. crossing on Western avenue, 19 feet.

At T., S. & M. crossing on Sanford street, 20 feet 7 inches.

At G. R. & I. crossing on Western avenue, 19 feet.

At G. R. & I. crossing on Sandford street, 21 feet 1 inch.

The Michigan Telephone Co., Muskegon Electric Light Co, W. U. Telegraph Co. and the G. R. & I. Telegraph Co., are all using single cross-arms, wooden pins, small poles and brackets.

owosso.

The Owosso & Corunna Traction Company's trolley wires at the following points are not strung in accordance with the statute:

At A. A. crossing on Washington street, 21 feet 2 inches.

At A. A. crossing at the power house, 21 feet 4 inches. At A. A. crossing on Corunna street, 20 feet 9 inches.

The Caledonia Electric Light Company's wires at A. A. crossing on Washington, and the D., G. H. & M. crossings in front of the power house, are on single cross-arms.

The Postal Cable and Telegraph Co., Michigan Telephone Co., and the W. U. Telegraph Co.'s wires at all railroad crossings are defective.

PONTIAC.

The Oakland Railway Company's trolley at the following crossings are defective:

At G. T. crossing, 20 feet 3 inches.

At. G. T. crossing three-fourth mile east of depot, 21 feet.

At P., O & N. crossing near depot, 21 feet 3 inches.

The Standard Electric Light Company's wires at the following points are on single cross-arms:

At G. T. crossings on Florence and Warren streets, and at the P., O.

& N. crossings on Howard street and G. T. Junction.

The W. U. Telegraph, New Telephone and Michigan Telephone Companies use single cross-arms and wooden pins.

PORT HURON.

The City Electric Railway Company's trolley wires at the following points are too low:

At G. T. crossing on Pine Grove avenue, 21 feet 9 inches, and at the F. & P. M. crossing on Pine Grove avenue, 20 feet 1 inch.

The Excelsior Electric Light Company's wires at the following points are strung on single cross-arms and wooden pins are used:

At F. & P. M. crossings at grain elevator, water works, and near depot; and also on Butler, Quay, Military, 24th and Stone streets.

The Michigan Telephone Company's wires at the F. & P. M. crossings on Bard, Butler and Sarnia streets, and the G. T. crossings on Clyde, Quay, Military, Stone and Park streets, are improperly strung on single cross-arms and wooden pins.

The New State Telephone Company's wires at the grain elevator near depot, and the F. & P. M. crossings on 10th and West Park streets, are

defective.

REED CITY.

G. R. & I. Telegraph Company's wires are on single cross-arms at all railroad crossings.

SAGINAW (EAST SIDE).

The Saginaw Electric Light and Power Company's wires are improp-

erly strung at the following points:

At the M. C. crossing on Alger, Holden, Emerson, South Tilden streets, and Jefferson avenue, on first street south of Warren avenue, on first street north of Warren avenue, and on first street north of Atwater street; at the F. & P. M. crossings on Mackinaw and Washington streets; at the belt line crossings on Center and Hess streets; at the C., S. & M. crossings on Atwater, Thompson, Mackinaw streets and east of the depot.

The Swift Electric Light Company's wires at the F. & P. M. crossing on Third street are strung on single cross-arms and with wooden pins.

The Michigan Telephone Company's wires at the following crossings

are defective, and do not comply with the statute:

At F. & P. M. crossings on First, Wardsworth, Sheridan, Mackinaw, Hess and Washington streets; at M. C. crossings on Jefferson, Atwater and Emerson streets; at the belt line crossing on Jefferson avenue and at the C., S. & M. crossing on Holland avenue.

The W. U. Telegraph wires at F. & P. M. crossings on Merson street

and at Barber Asphalt Co. are strung on single cross-arms.

The city fire department wires at F. & P. M. crossings on Fourth, Hess and Washington streets; at the M. C. crossings on First, Atwater and Holden streets, and Jefferson avenue; and the T. S. & M. crossings on South Washington and Holland avenue, and Thompson street, are improperly strung and wooden pins are used.

SAGINAW (WEST SIDE).

The Saginaw Electric Light and Power Company's wires at the following points are defective, single cross-arms, brackets and wooden pins being used:

At M. C. crossings on Michigan, Cleveland, Madison and Bristol streets; at C., S. & M. crossing on Genesee avenue, and the belt line crossing on the Gratiot road.

The Michigan Telephone Company's wires at the following points do

not comply with the requirements of the statute:

At the M. C. crossings on first and second streets east of Michigan avenue; on Cleveland, Madison, Monroe and Clinton streets; and the belt line crossings at Gratiot road and the first road north of Gratiot road.

The fire alarm wires at the following crossings are improperly con-

structed:

At the belt line crossing on Michigan avenue, and at the M. C. crossings on Cleveland, Monroe, Bristol and Genesee streets.

ST. JOHNS.

The electric light wires at the D., G. H. & M. depot and at the crossing on Clinton street are strung on single cross-arms.

The Crowley Telephone Company's wires on Clinton street are on single arms and wooden pins.

WHITE CLOUD,

The electric light wires at the depot are strung on single cross-arms.

WILLIAMSTON,

The electric light wires over the D., G. R. & W. are on single cross-arms and the poles 150 feet apart.

CIRCULARS ISSUED BY THE COMMISSIONER OF RAILROADS DURING THE YEAR 1897, AP-PROVING STYLES OF FENCING.

STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILBOADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

The Consolidated Steel and Wire Company of Chicago, having made application for the official approval of the Commissioner of Railroads, of the consolidated field fencing, so called, to be used by railroad companies for right of way fence, and having made a personal inspection and test of said fence, and being satisfied that the same is equal in strength, closeness of construction and efficiency, to prevent the passage of all stock through the same, and equals the height of the standard fence now required by law;

Now, Therefore, By virtue of the power vested in me by section 15, article IV, act 198, laws of 1873, and acts amendatory thereof, as amended by act 26, laws of 1889, authority is hereby granted to the railroad companies of this State to use the said consolidated field fencing for fencing their respective rights of way, subject to the following conditions:

Railroad companies using this fence will be required to comply with the law for railroad fence as to dimensions of posts and setting the same, and leveling the inequalities of ground under the fence: Provided, The posts used in construction may be placed at a distance of 16 feet apart from center to center.

The fence shall be constructed in accordance with attached plan with specifications as follows: The fence shall consist of twelve steel lateral or strand wires, bottom and top wires No. 9 gauge; all other strand wires No. 11 gauge. The spaces beginning at the bottom to be $2\frac{3}{4}$, 3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, 8 and 9 inches.

There shall be a vertical stay wire of No. 12 gauge, wrapped and immovably fixed to each strand wire, not to exceed one foot apart.

IN TESTIMONY WHEREOF, Witness my hand and the official seal of this department, this eighth day of April, A. D. 1897.

(Signed.)

SYBRANT WESSELIUS,

Commissioner of Railroads.

STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILROADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

The Lamb Wire Fence Company of Tecumseh, Michigan, having made application for the official approval of the Commissioner of Railroads, of the Lamb Woven Wire Fence, so called, to be used by railroad companies for right of way fence, and having made a personal inspection and test of said fence, and being satisfied that the same is equal in strength, closeness of construction and efficiency, to prevent the passage of all stock through the same, and equals the height of the standard fence now required by law;

Now, Therefore, By virtue of the authority vested in me by section 15, article IV, act No. 198, laws of 1873, and acts amendatory thereof, as amended by act 26, laws of 1889, authority is hereby granted to the railroad companies of this State to use the said Lamb woven wire fence for fencing their respective rights of way, subject to the following conditions:

Railroad companies using this fence will be required to comply with the law for railroad fence as to dimensions of posts and setting the same, and leveling the inequalities of ground under the fence: Provided, The posts used in construction may be placed at a distance of 16 feet apart from center to center.

The fence shall be constructed in accordance with attached plan with specifications as follows: The fence shall consist of 11 lateral or strand wires, bottom wire to be No. 9 gauge and top wire to be No. 7 gauge. The bottom wire shall be strung not to exceed three inches from the ground, and the spaces between lateral wires beginning from the bottom shall be as follows: $3, 3\frac{1}{2}, 4, 4\frac{1}{2}, 5\frac{1}{2}, 6, 7, 7\frac{1}{2}, 8$ and 9 inches.

There shall be vertical steel stay wires of No. 11 gauge wrapped and immovably fixed to each lateral wire not to exceed 14 inches apart.

IN TESTIMONY WHEREOF, Witness my hand and the official seal of this department, this third day of May, A. D. 1897.

(Signed.)

SYBRANT WESSELIUS,

Commissioner of Railroads.

STATE OF MICHIGAN, Office of the Commissioner of Railroads.

To General Managers and Superintendents of Railroads in the State of Michigan:

The McMullen Woven Wire Fence Company of Chicago, having made application for the official approval of the Commissioner of Railroads, of McMullen's steel wire cable fencing, so called, to be used by railroad companies for right of way fence, and having made a personal inspection and test of said fence, and being satisfied that the same is equal in strength, closeness of construction and efficiency, to prevent the passage of all stock through the same, and equals the height of fence now required by law;

Now, Therefore, By virtue of the authority vested in me by section 15, article IV, act No. 198, laws of 1873, and acts amendatory thereof, as amended by act 26, laws of 1889, authority is hereby granted to the railroad companies of this State to use the said McMullen steel wire cable fencing for fencing their respective rights of way, subject to the following conditions:

Railroad companies using this fence will be required to comply with the law for railroad fence as to dimensions of posts and setting the same, and leveling inequalities of ground under the fence so that lower strand shall not be over three inches from ground at any point: Provided, That posts used in construction may be placed at a distance of 16 feet apart from center to center.

The fence shall be constructed in accordance with the attached plan with specifications as follows: The fence shall consist of ten lateral cab'es as follows: Top cable, four strands No. 12 steel wire; next eight cables, each two strands No. 13 steel wire; bottom cable, two strands No. 12 steel wire, with twenty-four cross or tie wires to the rod of No. 13 gauge. The spaces between the cables beginning at the bottom to be $3\frac{1}{2}$, $3\frac{1}{2}$, 6, 6, 9, 9, 9, inches.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the department to be affixed at the Capitol, in the city of Lansing, this twenty-second day of October, A. D. 1897.

(Signed.)

SYBRANT WESSELIUS,

Commissioner of Railroads.

BOARD OF RAILROAD CROSSINGS.

The Board of Railroad Crossings is composed of the Commissioner of Railroads, the Secretary of State and the Attorney General.

It is their duty to examine and approve or disapprove all maps filed, showing the line of proposed railroads or extensions of established lines.

It is their especial duty to carefully investigate all proposed crossings of the tracks of other railroads, and to order at these crossings such mechanical safety appliances, or other protection from danger of collision, as in their judgement the interests of public safety demand.

The following is a brief summary of the record of proceedings of the

board for the year 1897:

The board met on February 4 to consider a map filed by the Lake Superior & Ishpeming Railway Company, showing proposed extension of their line in the city of Ishpeming, with numerous crossings of the tracks of the Duluth, South Shore & Atlantic Railway and the Chicago & Northwestern Railway. Serious objections were made to the proposed crossings, and the Board adjourned until February 19 to allow the officials of the roads in interest to make an amicable arrangement for the crossings, if possible.

Another meeting was held on February 19, but the railroad companies, being still unable to agree, a further adjournment was taken until March 30. In the meantime an inspection of the location was ordered made by the Secretary of State, the Attorney General and Mechanical Engineer E. F. Moore.

On March 30, the board met, listened to the report of the inspection and adjourned until April 1, at which time the map was approved, and a first-class interlocking switch and signal system was ordered at the crossing.

At a meeting of the board held on February 4, a map was presented by the Munising Company, showing route of their line through Alger and Marquette counties, with crossing of the tracks of the Duluth, South Shore & Atlantic Railway. At this meeting letters were received from the chief engineer of the Duluth, South Shore & Atlantic Railway, waiving the right of notice, and stating that an amicable arrangement had been made for the crossing in question, the Duluth, South Shore & Atlantic crossing over the tracks of the Munising Railway.

The map as presented was approved at this meeting.

On March 30, the board met to consider a map filed by the Detroit & Lima Northern Railway, showing line through Lenawee county and

the city of Adrian, with crossing of the Lake Shore & Michigan Southern Without any action being taken, the board adjourned to meet in the city of Adrian April 2 for an inspection of the premises. making this inspection, another meeting was held on April 8, at which time the map was approved and a first-class interlocking and derailing switch and signal system ordered installed and maintained at the crossing.

On April 27, the Au Sable & Northwestern Railroad Company presented a map showing line through Montmorency county, with crossing

of the Bear Lake branch of the Michigan Central Railroad.

An amicable arrangement was made for this crossing and the map was approved, gravity gates being ordered for protection to the crossing.

A meeting was held on June 18 for the consideration of a map filed by the St. Joseph Valley Railway Company, showing extension of their line in the city of Benton Harbor, with crossings of the Cleveland, Cincinnati, Chicago & St. Louis and the Chicago & West Michigan Railways. An inspection of the location of these crossings was made by the board on June 28, another meeting held on July 27, and finally on August 7 the map was approved, and a first-class interlocking plant ordered at said crossings.

The Detroit & Mackinac Railway Company presented a map on September 1, showing route of line through Presque Isle county, and as there were no crossings involved in this line, the map was approved at this meeting.

On September 8, a map was considered showing change of route of the Mineral Range Railroad through Houghton county, with crossing of the Hancock & Calumet Railroad. This company having waived the right of notice and all objections to the proposed crossing, the map was approved with the understanding that a first-class interlocker be maintained at the crossing.

On October 21, a map was presented by the Grand Rapids, Kalkaska & Southeastern Railroad Company showing line through Kalkaska county, with crossing of the Grand Rapids & Indiana Railroad in the village of Kalkaska. This map was approved and a second-class interlocker ordered at the crossing.

Meetings were held on November 2 and 3 to consider maps filed by the Detroit & Lima Northern Railway, showing route of their line through Monroe and Wayne counties, with crossings of the Ann Arbor, Flint & Pere Marquette, Lake Shore & Michigan Southern, and the Michigan Central Railroads. An inspection of the location of these crossings was made on November 11, and on November 15 the maps were approved, first-class interlockers being ordered at the crossings of the Ann Arbor Railway, and the crossings of the Lake Shore & Michigan Southern and the Michigan Central Railroads, with second-class interlockers at all crossings of spur tracks, except where the Commissioner of Railroads should decide them to be unnecessary, the necessity for crossing of the Flint & Pere Marquette being obviated.

On November 19, the Grand Rapids, Kalkaska & Southeastern Railroad Company presented a map showing extension of their line in Kalkaska and Missaukee counties, and as there was no crossings shown on

this map it was approved.

The Boyne City & Southeastern Railroad Company presented a map on November 19, showing extension of their line in Charlevoix county, with crossing of the Grand Rapids & Indiana Railroad. Action on this map was deferred until November 29 to allow the G. R. & I. Co. to file their objections to the proposed crossing. Map approved November 29 and second-class interlocker ordered.

On November 20, the Toledo & Northwestern Railroad Company presented a map showing route of their line through Calhoun and Eaton counties, with junctions with the Michigan Central and Grand Trunk Railroads. Action on this map was postponed until December 3 in order that the companies in interest might be properly notified. Map approved December 10.

ARTICLES OF ASSOCIATION FILED BY RAIL-ROAD CORPORATIONS DURING THE YEAR 1897.

Detroit, Grand Rapids & Western Railroad Company. Capital stock, \$5,693,500.

This is a reorganization of the Detroit, Lansing & Northern Railway Company. Articles were filed on December 6, 1896, and January 1, 1897, this company began operating all the lines formerly owned and leased by the Detroit, Lansing & Northern and the Saginaw Valley & St. Louis Railroad Companies.

The Benton Harbor Electric Railway & Transit Company. Capital stock, \$650,000.

Proposed line from Benton Harbor to Allegan, 80 miles. Filed January 13.

Detroit & Cincinnati Railway Company, amendment to articles of association, changing name of company to Detroit & Lima Northern Railway Company. Filed February 20.

Detroit & Lima Northern Railway Company. Amendment to articles of association, increasing capital stock from \$500,000 to \$5,000,000. Filed April 10.

Toledo & Milwaukee Railroad Company. Capital stock, \$1,500,000. Proposed line from State line between Ohio and Michigan, in Monroe county, to Allegan, being part of the Cincinnati, Jackson & Mackinaw Railroad. Filed June 21.

Milwaukee, Benton Harbor & Columbus Railway Company. Capital stock, \$600,000.

Proposed line from Benton Harbor to Nappanee, Indiana, being a consolidation of the St. Joseph Valley Railway Company and the Benton Harbor & Southeastern Railway Company. Filed August 10.

Toledo & Milwaukee Railroad Company. Amendment to articles of association changing name of company to Detroit, Toledo & Milwaukee Railroad Company. Filed September 7.

Grand Rapids, Kalkaska & Southeastern Railroad Company. Capital stock, \$250,000.

1.-TRACK MILEAGE.

ا .		Road	owned.	Road operated.		
Road number.	Railroads.	Total miles.	Miles in Michigan.	Total miles.	Miles in Michigan.	
1 2 8 4 5	Ann Arbor Aroadia & Betsey River Au Sable & Northwesters Bay City Belt Line Boyne City & Southeastern	\$02.78 23. 108. 8.09	296.78 23. 106. 8.09 16.	302.78 17.50 106.	296.78 17.50 108.	
6 8 9 10 12	Buchanan & St. Joseph		1.75 59.87 224. 44.20	59.37 835.27 44.20 6,150.75	59.87 224. 44.20 152.08	
13 14 15 16 16	Chicago & Northwestern. Chicago & West Michigan. Chicago & North Michigan Cincinnati, Jackson & Mackinaw Jackson & Cincinnati	8,782.29	521.19 454.04 92.61 155.18 17.65	5,030.78 581.11 414.49	521.19 546.63 190.87	
17 18 19 20 23	Cincinnati, Saginaw & Mackinaw. Cleveland, Cincinnati, Chicago & St. Louis. Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern System. Detroit & Mackinac.		53.00 35.14 189. 358.78 296.40	58.00 1,804.74 189. 378.82 296.40	53.00 35.14 189. 378.82 296.40	
24 25 25 25 26 27	Duluth, South Shore & Atlantic	571.71 785.43 18.72 16.80 496.84	465.18 735.43 18. 16.30 380.13	588.33 783.66 16.30 584.79	475.03 778.01 16.30 442.98	
28 29 30 31 82	Muskegon, Grand Rapids & Indiana	98.85	36.85 26. 31.19 25.05 34.	31.42 39.29	31.42 25.05	
83 84 85 86 87	Lake Shore & Michigan Southern System		407.54 65.20			
38 39 40 41 42	Kalamazoo, Allegan & Grand Rapids. Kalamazoo & White Pigeon (L. S. & M. S.). Northern Central Michigan "" Sturgis, Goshen & St. Louis "" Lima Northern.		l .			
43 44 45 46 47	Lowell & Hastings		12.50 44.71 90.50 59.50 11.	12.50 44.71 90.50 59.50	12.50 44.71 90.50 59.50	
48 49 50 51 52	Mason & Oceana Michigan Air Line Railway Michigan Central System Battle Creek & Sturgis Bay City & Battle Creek	27. 105.60	27. 105.60 221. 33.80 18.	27. 105.60 1,642.37		
58 54 55 56 57	Canada Southern Bridge	3.66 149.90 4.84 83.79 322.90	3.66 149.90 4.84 83.79 322.90			
58 59 60 61 62	Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	39.50 115.16 14.68 83.01 58.92	39.50 109.10 14.68 83.01 47.27			

1.-TBACK MILEAGE.-CONTINUED.

Main. Sidings and spure. State track. Feet. Inches. Main track, 1895. Inches. Inches.										
Main.	Main second.	Sidings and	Retimated as single	Ga	uge.	Main track,	In- crease, 1896.	De- crease, 1896.	Track in joint	
		spurs.	track.	Feet.	Inches.	1895.	1896.	1896.	nse.	
96.78		58.57	850.30	4	814 814	298.80	2.93			
28. 08. ·			23.00 106.	4 8	81%	17.50 108.	5.50			
8.09		4.71	12.80	4	814 814	8.09				
16.			16.	4	81%	14.	2.			
1.75 59.87			1.75 85.90			1.75			l	
9.37	20.11	28.53	85.90	4	814 834 814 834	59.87				
4. 4.20	20.11	65.04 4.09	309.15 48.19	4	876	224. 44.20				
12.08				٠ 1	814	} 152.08				
2.05		48.57	200.65	7 8		} 152.08				
21.19		174.54	695.73	3 4 8	81/6	521.19				
54.04		155.01	609.05		81/4 81/4 81/4 81/4	448.66	5.88			
92.61			92.61	4	81/4	92.61				
55.18 17.65		19.22 1.26	174.40 18.91	4	8%	155.18	17.65		ļ	
				_			11.00		[
3.		82.64	85.64	4	814 814 814 814 814	53.				
85.14 80		8.21 69 .14	48.85 258.14	4	81/2	33.40 189	1.74			
89. 88.78 96.40		112.05	470.83	1	8 %	858.78				
6.40		80.	326.40	Ā	81/4	25 3.	43.40			
5.18		109.02	574 90	4	836	464.71	.47			
5.48		177.81	574.20 918.24	1	81/4	752.08	 	16.65		
18.			18.	4	81/2		18.00			
16.30 30.13	8.10	13.12 117.29	29.42 500.52	4	81/2	16.19 383.21	.11	3.08		
	0.10			•	1			3.00	i	
6.85		8.12	44.97	4	9	86.85				
26. 31.19		4.82 11.75	80.82	8	9	26. 34.31		3.12		
25.05		5.51	42.94 30.56	1 4	81/4	25.03		0.12		
34.			84.			34 00				
7.54		103.17	510.71	4	814	407.88		.84		
35.20		4.29	69.49	4	81/4	65.20				
		4.29	09.49	*	878	65.20				
14.54		4.81	49.35	4	81/4	44.54				
58.42		11.58	70.00	4	834	58.42				
~~. =				. 						
6.40			6.40	4	834		6.40		9.50	
				_]		0.20		•	
12.50		1.00 18.52	13.50 58.23	4	814 814 814 814	12.50 31.28	13.48			
14.71 10.50		21.00	111.50		814	90.48	.02			
59.50		8.	67.50	4	814	59.50	i			
11.			11.			:	11.			
27.		10.	87.	8		27.			<u></u>	
05.60		9.47	115.07	4	814	1 105 AO				
81. 83.80		190.59 4.01	411.59 37.81	4	81/2	221. 33.80				
8. 8.		2.41	20.41	8	81/4 81/4 81/4 81/4	18.				
			1	_	1	1				
8.66 19.90		1.75 68.55	5.41 218.45	4	81/4 81/4	3.66 149.90				
4.84		.32 16.78	5.16	4	84	4.84				
R3.79		16.78	100.57 557.13	4	814	83.79				
22.90		284.23	557.13	4	81/2	322.90				
39 .50		5.18	44.63	4	81/2 81/2 81/2 81/2	39.50				
D. 10		22.29 .92	131.39	4	836	109.10				
			15.60	. 4	1 X15	14.68	l	l	1	
14.68 33.01		10.57	93.58	Ī.	R1.Z	82.79	.22			

ANNUAL REPORT OF THE

1.-TRACK MILEAGE.-CONTINUED.

.:		Road	owned.	Road operated.	
Road number.	Railroads.	Total miles.	Miles in Michigan.	Total miles.	Miles in Michigan.
63 64 65 66 67	Midland & Hubbard		10. 17.40 198.89 25.49	10. 17.40 1,188.71 25.49	10. 17.40 199.23 25.49
68 69 72 73	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern	100.59 66.57 1.22 36.60	100.59 66.57 .36 36.60	100.59 66.57 36.60	100.59 66.57 3 6.60
74 75 76 77	St. Clair Tunnel St. Joseph Valley (Not operated) Superior Terminal (Included in D. S. S. & A.) Toledo, Saginaw & Muskegon.	2.25 10. 8. 96.	1.121/2 10. 8. 96.	2.25 96.	1.12½ 96.
78 79 80 81	Wisconsin & Michigan. Wabaah. Detroit Union R. B. Depot & Station Co The Fort St. Union Depot Co	68.55 1,594. 8.34 1.41	30.73 75.90 3.34 1.41	72.07 1,979.60	81.95 80.50
	ORE AND FOREST ROADS.				
1 2 3 4	Bear Lake & Eastern Crawford & Manistee Biver. Dead River (Operated by D. S. S. & A.) Hedla & Torch Lake	18. 10. 2.98 7,50	18. 10. 2.98 7.50	18. 10. 7.50	18. 10. 7.50
5 6 7 8	Lake Superior & Ishpeming	10. 63.	20.50 10. 63. 6.	20.50 10. 68. 6.	20.50 10. 63. 6.
	Total	22,703.52	7,759.0814	25,045.14	7,765.721/4

COMMISSIONER OF RAILROADS.

1.-TRACK MILEAGE.-Concluded.

					Michigan				
Main.	Main	Sidings and	Estimated as single	Ga	nge. Main track,		In- crease.	De- crease.	Track in joint
Main.	second.	second. spurs. tra	track.	Feet.	Inches.	1895.	1896.	1896.	use.
10.			10.	4	81/4	10.			
17.40	<i>j</i>	4.37	21.77	8		19.85		2.45	
98.89 25.49		35.50 8.67	234.39 34.16	4	81/4 81/4	198.89 7.02	18.47	- -	
£0.49		0.01	34.10	*					
00.59		7.61	108.20	4	81/4	100.20	.39		
66.57 .36		15.76	82.38 .36	4	814	66.57 .36	- 		
36.60		1.20	37.80	3		36.60			
1.121/4]	1:12%	4	814	1.121/4	l	}	
10.		.50	10.50	ī	814	10.			
8.			8.	4	81/4	8.			
96.		10.07	108.07	4	834	96.			
30.73		3.55	84.28	4	81/4	29.28	1.45		
75.90		88.50	114.40	4	81/4	75.90			
3.34 1.41		3.50 1.27	6.84 2.68	7	81/4	3.84 1.41			
1.11		1.2.	3.00	-		2.22			
18.			18.	3		18.			
10. 2.98		3. .17	13. 8.15	8 4	814	13. 2.98		8.00	
7.50			7.50	- 1	1 2	7.50			
					91/		00 50		
20.50 10.		6.35 3.	26.85 18.	4 3	81/4		20.50 10.		
63.			68.	3 8		63.			
6.		1.38	7.88	3		6.			
759.081/4	23.21	2,165.86	9,938,15%			7,608,611/4	179.11	28.64	9.50

2.-CAPITAL STOUK.

Road No.	Railroada	Par value of shares.	Number of shares issued.
1 2 8	Ann Arbor	\$100 00 100 00	72,500 1,400
4 5	Bay City Belt Line Boyne City & Southeastern	100 00 100 00 100 00	1,000 500
7 8 9 10	Central Michigan. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago, Kalawasoo & Saginaw. Chicago, Milwaukee & St. Paul.	100 00 100 00 100 00 100 00	10,950 66,000 4,500
12		100 00	4,500 783,131.61
18 14 15 16	Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw	100 00 100 00 100 00	663,838 74,482 162,808
17 18 19 20	Cleveland, Cincinnati, Chicago & St. Louis	100 00 100 00 50 00 100 00	15,000 379,878.35 30,000 43,356
19 20 21 22	Detroit, Lansing & Northern Nystem Grand Rapids, Lansing & Detroit	100 00 100 00	280 45
23 24 25 26 27	Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal River (Operated by Wisconsin Central) Grand Rapids & Indiana System	100 00 100 00 100 00 100 00 100 00	20,450 220,000 96,402 6,000 55,697
28 29 30 31 32	Muskegon, Grand Rapids & Indiana Traverse City. Hancock & Calumet Indiana & Lake Michigan (Operated by Terre Haute & Indiana) Iron Range & Huron Bay	100 00 100 00 100 00 100 00 100 00	200 2,050 3,500 8,000 7,640
88 84 85 86 87	Lake Shore & Michigan Southern System Detroit & Chicago Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson	100 00 100 00 100 00 100 00 100 00	500,000 10,000 13,500 4,141 27,275 48
38 39 40 41 42	Kalamazoo, Allegan & Grand Bapids Kalamazoo & White Pigeon Northern Central Michigan Sturgis, Goshen & St. Louis Lima Northern	100 00 100 00 100 00 100 00 100 00	6,100 2,309 6,000 3,000 24,000
43 44 45 46 47	Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern & Supplementary Manistique Manistique & Northwestern	100 00 100 00 100 00 100 00 100 00	1,896 50 20,000 1,500 1,050
48 49 50 51 52	Mason & Oceana Michigan Air Line Railway Michigan Central System Battle Creek & Sturgis Bay City & Battle Creek	100 00 100 00 100 00 100 00	1,500 3,000 187,380 5,000
52 53 54 55 56	Canada Sonthern Bridge	100 00 100 00 100 00 100 00	3,000 4,500 20,000 35
57			4,912 20,000
58 59 60 61 62	Kalamazoo & South Haven Michigan Air Line R. R. Michigan, Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	100 00 50 00 100 00 100 00 100 00	3,254 7,855.25 8,000 200 15,476.68

COMMISSIONER OF RAILROADS.

2.—CAPITAL STOCK.—CONTINUED.

		Amount p	aid in.			Stockho	olders.	ģ
On common.	On preferred.	On shares not issued.	Total.	Per mile of road.	Amount held in Michigan	Whole No.	No.in Mich.	Boad)
\$3,250,000 00 140,000 00	\$4,000,000 00	\$41,500 00	\$7,250,000 00 140,000 00 41,500 00	\$24,263 72 6,829 27 884 25	\$259,600 00 140,000 00 41,500 00	740 7 8	3 7 8	
100,000 00 50,000 00			41,500 00 100,000 00 50,000 00	12,360 94 3,125 00	41,500 00 51,750 00 50,000 00	9 7	8 7	
688,000 00 978,984 67 6,600,000 00			688,000 00 978,984 67 6,600,000 00	16,489 55 20,214 40 10,181 00	180,000 00 200 00 169,800 00	18 8 265	18 2 18 7	
450,000 00 46,027,261 00	27,285,900 00		450,000 00 78,318,161 00	11,919 89	449,900 00 58,100 00	4,766	14	
44,030,365 97	22,853,454 56		66,888,820 58	13,354 86	167,500 00	5,247	18	{
7,448,200 00 10,413,885 00	5,867,000 00	68,600 00	7,511,800 00	12,926 55 50,079 46	7,100 00 17,000 00	645 259	6 9	1
1,500,000 00	5,801,000 00		1,500,000 00	28,801 89	676,500 00	11	8	
27,987,885 00 1,500,000 00	10,000,000 00	428,997 45	88,416,382 45 1,500,000 00	21,286 85 7,936 51	17,800 00 800 00	2,642 11	6	
1,825,600 00 28,000 00 4,500 00	2,510,000 00		4,835,600 00 28,000 00 4,500 00	19,567 63 504 14 105 71	10,600 00 100 00 100 00	471 8 9	2 1 1	
2,000,000 00 12,000,000 00 8,298,200 00 600,000 00 5,569,700 00	45,000 00 10,000,000 00 6,842,000 00	859,800 00	2,045,000 00 22,000,000 00 10,000,000 00 600,000 00 5,569,700 00	6,899 46 38,481 05 13,533 08 36,809 82	934,000 00 58,200 00	310 1,566 6	1 15 14	
1,000 00			1,000 00	12,813 04 27 14	167,000 00	184	8	
203,000 00 850,000 00			205,000 00 350,000 00	7,884 62 11,221 55	85,400 00 100,600 00	73 12	72 10	i
800,000 00 764,000 00		50,000 00	800,000 00 814,000 00	20,361 41 28,941 00	814,000 00	10	10	
49,466,500 00 1,000,000 00 1,850,000 00 414,100 00 2,727,548 00	588,500 00		50,000,000 00 1,000,000 00 1,850,000 00 414,100 00 2,727,548 00	58,511 01 16,049 00 20,705 52 6,640 47	257,750 00 100 00 1,700 00 100 00	3,872 10 336 13	27 1 3 1	
			1 -		114,800 00	407	12	l
610,000 00 230,900 00			610,000 00 230,900 00	10,441 63 6,813 64 9,977 12	3,000 00 400 00 300 00	99 8 10	9 4 3	
600,000 00			600,000 00			8		l
190,120 00			190,120 00	15,209 60	190,120 00	7	7	
5,000 00 525,765 97		445,000 00	450,000,00	10,067 10 5,809 57	5,000 00 525,765 97	8 7	8 7 7	ł
150,000 00 105,000 00			525,765 97 150,000 00 105,000 00	2,521 01	114,800 00 740 00	9 7	7 5	
150,000 00			150,000 00	5,555 55	150,000 00	7	5	١
300,000 00 18,788,000 00			300,000 00 18,738,000 00	2,840 91 69,382 77	1,500 00 116,900 00	1,485	28 28	
500,000 00 300,000 00			500,000 00 300,000 00	12,195 12 16,666 66				ı
450,000 00			450,000 00	22,950 82	6,000 00	16	3	
2,000,000 00			1 2.000.000 00	13,342 25 725 21	800 00	7	3 7	
8,500 00 491,200 00			3,500 00 491,200 00	5,862 27	3,500 00 144,700 00	45	20 28	l
2,000,000 00			2,000,000 00	6,773 36	1,461,800 00	57		
825,400 00			325,400 00	8,237 97	825,100 00	199	124	
800,000 00 20,000 00			800,000 00 20,000 00	20,435 98 240 93	11,200 00	28	4	l
1,547,662 50			1,547,662 79	26,287 18	1,000 00	17	2	ĺ

ANNUAL REPORT OF THE

2.—CAPITAL STOCK.—CONTINUED.

Road No.	Railroads.	Par value of shares.	Number of shares issued.
63	Midland & Hubbard	\$100 00	
64	Midland & Northern	100 00	25
65	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie	100 00	8,934
66	Minneapolis, St. Paul & Sault Ste. Marie	100 00	210,000
67	Munising.	100 00	8,700
68	Pontiac, Oxford & Northern	100 00	10,000
69	Saginaw, Tuscola & Huron	100 00	1,233
70	Saginaw Valley & St. Louis System	100 00	2,553
71	Saginaw & Grand Rapids	100 00	700
72	Sault Ste. Marie Bridge Co.	100 00	10,000
78	South Haven & Eastern	100 00	2,185
74	St. Clair Tunnel	100 00	7,000
75	St. Joseph Valley	100 00	8,000
76	Superior Terminal.	100 00	610
77	Toledo, Saginaw & Muskegon	100 00	16,000
78	Wisconsin & Michigan	100 00	9.515
79	Wabaah	100 00	520,000
80	Detroit Union R. R. Depot & Station Co.	100 00	22,500
81	The Fort Street Union Depot Co	100 00	10,000
	ORE AND FOREST ROADS.		
1	Bear Lake & Eastern	100 00	1,046
2	Crawford & Manistee River	100 00	500
3	Dead River	100 00	
4	Hecla & Torch Lake	100 00	1,000
5	Lake Superior & Ishpeming	100 00	10,000
6	Lewiston & Southeastern	100 00	600
7	Manistee & Luther	100 00	8,000
8	Quincy & Torch Lake	100 00	500
_	Total		4,434,187.8

2.—CAPITAL STOCK.—CONCLUDED.

		Amount p	aid in.			Stockho	oldere.	Š.
On common.	On preferred.	On shares not issued.	Total.	Per mile of road.	Amount held in Michigan.	Whole No.	No.in Mich.	Road N
\$12,000 00 2,500 00 393,400 00 14,000,000 00 570,000 00	\$7,000,000 00		\$12,000 00 2,500 00 393,400 00 21,000,000 00 870,000 00	\$1,200 00 250 00 22,609 20 17,945 21 10,000 00	\$12,000 00 2,500 00 10,000 00	7 7 20 87 10	7 7 10	6
1,000,000 00 123,300 00 255,300 00 70,000 00 1,000,000 00		\$255 88 9,504 01	1,000,000 00 128,555 88 264,804 01 70,000 00 1,000,000 00	10,000 00 1,856 02 7,459 27 19,444 44	2,000 00 60,800 00 25,200 00 100 00 100 00	8 123 84 24 12	2 118 66 1 1	67777
218,500 00 850,000 00 800,000 00 1,600,000 00	61,000 00	200 00	218,500 00 850,000 00 300,000 00 61,200 00 1,600,000 00	5,969 95 155,855 00 30,000 00 16,666 67	7,500 00 400 00 500 00	8 8 7 10 9	2 2 2 7 5	
951,500 00 28,000,000 00 2,250,000 00 1,000,000 00	24,000,000 00		951,500 00 52,000,000 00 2,250,000 00 1,000,000 00	32,622 00	2,058,500 00 276,000 00	17 15	15 7	
104,664 00 50,000 00 1,000 00 100,000 00	51,010 98		104,664 00 50,000 00 52,010 96 100,000 00	5,814 66 5,000 00 17,453 84 18,888 38	104,664 00 50,000 00 200 00	7 7 7 5	7 7 5 8	
1,000,000 00 60,000 00 800,000 00 50,000 00			1,000,000 00 60,000 00 300,000 00 50,000 00	48,780 49 6,000 00 4,761 90 8,333 34	125,100 00 60,000 00 800,000 00 600 90	10 8 7 7	2 8 7 6	
815,462,842 11	\$120,048,865 52	\$1,398,856 84	£436,910,564 76	\$18,815 67	\$11,148,289 97	24,509	902	Γ

8.-INDEBTEDNESS.

		ı		
Boad No.	Railroads.	Funded.	Unfunded.	Total.
1 2 8 4 5	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Bay City Belt Line Boyne City & Southeastern	\$7,000,000 00	\$381,826 08 385 96 145,294 23 18,840 28 49,781 68	\$7,381,826 08 385 96 145,294 28 18,340 28 49,781 68
7 8 9 10 11	Central Michigan Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Kalamasoo & Saginaw Chicago & Kalamasoo Terminal	50,000 00 1,786,141 46 12,000,000 00	16,500 00 5,293,122 14 529,175 89	66,500 00 1,786,141 46 17,298,122 14 529,175 89
12 13 14 15 16	Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan Chicago & North Michigan Cincinnati, Jackson & Mackinaw		6,096,008 64 5,886,470 22 458,620 30 247,668 88	144,676,008 64 187,194,970 22 8,645,695 30 420,991 48
17 18 19 20 28	Cincinnati, Saginaw & Mackinaw		279,924 51 4,594,561 36 1,975,976 11 7,103,441 68 191,355 69	2,004,924 51 59,611,291 36 7,401,976 11 7,108,441 68 3,091,355 69
24 25 26 27 28	Duluth, South Shore & Atlantic Flint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System Muskegon, Grand Rapids & Indiana	23,678,451 24 10,889,000 00 520,000 00 9,337,000 00 750,000 00	3,889,501 68 1,589,482 48 889,417 89 99,075 00	27,567,952 87 11,978,482 48 520,000 00 10,176,417 89 849,075 00
29 80 81 82 83	Traverse City Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.) Iron Range & Huron Bay Lake Shore & Michigan Southern System		12,038 63 271,893 87 26,264 24	452,058 68 400,000 00 751,893 37 452,413 88 44,516,000 00
36 38 39 40 41	Detroit, Monroe & Toledo Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan Sturgis, Goshen & St. Louis		924,000 00 400,000 00 1,525,000 00	924,000 00 840,000 00 400,000 00 1,525,000 00 322,000 00
42 43 44 45	Lima Northern		38,905 00 1,527,484 28 88,493 38	1,200,000 00 38,905 00 1,527,434 28 88,493 38
46 47 48 49 50 51	Manistique & Northwestern Mason & Oceana Michigan Air Line Railway Michigan Central System Battle Creek & Sturgis	1,508,666 67 10,000,000 00 500,000 00	1,619 91 50,000 00 47,463 68 2,522,833 98	1,619 91 50,000 00 1,556,180 35 12,522,833 98 500,000 00
52 58 54 55 56	Bay City & Battle Creek	250,000 00 1,000,000 00 	1,702,478 89 42,751 98	250,000 00 2,702,478 89 42,751 98 1,500,000 00
57 58 59 60 62	Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Toledo, Canada Southern & Detroit	2,600,000 00 323,635 00 1,511,737 50	605,350 72 2,467,780 00	• 2,600,000 00 928,965 72 3,979,517 50
63 64 65 66 67	Midland & Hubbard Midland & Northern Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie Munising	613,300 00 29,753,978 10 2,000 00	3,586 25 8,547 29 293,697 85 2,821,380 04 398,881 38	3,586 25 8,547 29 906,997 85 82,575,358 14 400,881 38

COMMISSIONER OF RAILROADS.

3.—INDEBTEDNESS.—CONTINUED.

Miles of road covered by indebt- edness.	Debt per mile of road.	Indebtedness previous report.	Increase during 1896.	Decrease during 1896.	Total interest on indebtedness.	Deed We
296.80 20.50	\$24,58 7 55 16 88	\$7,409,907 94 5,152 18 183,986 94		\$78,081 91 4,816 17	\$230,000 00	
103. 8.09 16.	16 88 1,345 81 2,267 08 8,111 35	183,986 94 18,171 52 49,984 45	\$11,807 29 168 76	203 77		
156. 59.87	428 84 30.084 92	64,000 00 1,786,141 46	2,500 00		2,500 00 61,700 00 66J,0L0 00	
59.87 826.5 44.20	30,084 92 52,965 15 11,972 27	17,076,068 67 203 83	217,058 47 529,175 39	208 88	665,000 00	
6,150.75	28,521 69 27,587 47	145.274.876 23		598,867 59 1,528,908 67	7,575,515 26	
5,030.78 581.11	27,587 47 14.877 79	188,728,878 89 8,527,689 41	118,005 89	1,528,908 67	6,390,319 49 409,860 58	\
841.35	1,283 31	192,606 56	228,384 87		15,658 45	1
58. 1,804.74	87,828 76 33,030 40	1,961,710 68 58,136,090 85	43,213 88 1,475,200 51 53,727 28		86,250 00 2,642,972 11	
189.	33,030 40 39,168 89	I 7.848.248 XK	58,727 26 66,372 60		351,509 88	
296.4	10,429 61	7,037,069 08 8,228,458 01		132,097 82	116,000 00	
571.71 738.93	48,220 17 16,210 57	26,667,692 41 11,463,855 24	900,260 46 514,627 24		861,954 81 613,828 80	
16.30 434.69 36.85	31,901 84 23,410 74 28,041 44	520,000 00 17,176,474 89 830,550 00	18,525 00	7,000,057 00	26,000 00 506,829 30 37,500 00	
26.	17.386 68	448.857 86	3,695 77		7,500 00	l
31.19 39.29	12,824 62 19,137 01	400,000 00 742,478 59	9,414 78		16,250 00	
84. 1,117.51	13,306 29 39,834 99	742,478 59 429,952 08 44,766,000 00	22,461 80	250,000 00	3,117,745 00	
58.42	10,441 63	840,000 00	924,000 CO		42.000 co	
		1.525.000.00	400,000 00			
		1,525,000 00 822,000 00			9,660 00	
12.50	8,112 40	38,903 00	1,200,000 00		60,000 00	
90.50	16,877 78 1,487 28	8 88 1,521,310 18	6,124 15	8 38	74,517 95	
59.50	1,487 28	125,171 42	1 410 01	36,678 04	5,414 56	
27. 105.60	1,851 85	50,000 00	1,619 91			
270.07	1,851 85 14,786 08 46,368 85 12,195 12	1,556,130 35 12,847,676 89 500,000 00	175,157 59		75,438 84 660,00 00 15,000 00	
41.	1	l			l .	
18.	16,666 66	259,000 00 2,611,917 79	90,561 10		7,500 CO 70,000 OO	
149.90 4.84 88.79	23,855 90 8,833 05 17,901 77	3,576,000 00 41,816 98 1,500,000 00	935 00	8,576,000 00	178,800 00	
88.79	17,901 77				90,000 00	
39.50	17,721 50	2,034,000 00 700,000 00 2,600,000 00		2,054,000 00 700,000 00	85,00) 00	
115.16 14.68 58.92	22,577 28 63,282 40 67,541 03	2,600,000 00 897,617 92	81,867 80		1 104.000 00	
58.92	67,541 03	897,617 92 8,874,517 50	81,867 80 105,000 00		• 22,610 00 103,000 00	
10.	\$ 858 62 854 72	3,151 95 7,613 80	434 30 938 49			
17.40 1,170.21	52,126 81 27,837 19 15,727 01	7,613 80 644,331 89 82,640,937 35	262,665 96	65,579 21	25,253 88 1,196,275 8) 120 00	1
25.49	15,727 01	04,090,801 50	400,881 38	09,5/19 21	1,190,210 81	

ANNUAL REPORT OF THE

8.—INDEBTEDNESS.—CONTINUED.

Road No.	Railroads.	Funded.	Unfunded.	Total.
68 69 72 78 74 75 77 78 79 81	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern St. Clair Tunnel. St. Joseph Valley Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash The Fort Street Union Depot Co.	900,000 00 216,000 00 2,500,000 00 50,000 00 1,649,000 00 951,000 00 81,534,000 00	\$24,221 17 1,262,335 22 8,577 00 12,721 99 62,546 49 691,003 54 347,042 56	\$160,221 17 1,262,835 22 900,000 224,577 00 2,512,721 99 112,546 49 2,340,003 24 1,298,042 56 81,534,000 00 1,310,694 40
14578	ORE AND FOREST ROADS. Bear Lake & Eastern	1,200,000 00	8,691 71 690,282 84 209,454 46 881 09 65,921 22	8,691 71 690,282 84 1,409,454 46 381 09 165,921 22

COMMISSIONER OF RAILROADS.

3.—INDEBTEDNESS.—Concluded.

Miles of oad covered by indebt- edness.	Debt per mile of road.	Indebtedness previous report.	Increase during 1896.	Decrease during 1896.	Total interest on indebtedness.	Road No.
100. 66.57	\$1,602 2 18,962 5		\$72,525 37 75,188 72		\$5,256 68 68,548 08 45,000 00	6 6 7 7 7 7 7 7
36.60 2.25	6,185 9 1,116,765 3	220,900 00	3,677 00	\$17,150 08	45,000 00 7,007 38 125,000 00	7
10. 96. 68.55 1,695.2	11,254 6 24,375 0 20,425 5 48,100 0	2,309,968 35 911,096 40	2,500 00 30,085 19 386,946 16 2,000 00	8,856,805 44	2,500 00 82,450 00 49,025 00 2,729,545 00 45,000 00	71 71 71 8
18. 7.5 20.5 63.	482 8 92,037 7 68,753 8 6 0	7 10,518 41 586,230 12 631 52	104,052 72 1,409,454 46	1,821 70	42,608 29	
23,088.71	27,653 5 \$28,427 7	-	128 00 \$9,900,218 27	\$19,401,528 54	\$29,759,908 09	

ANNUAL REPORT OF THE

4.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.

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Road number.	Railroads.	Total reported cost of property.	Cost per mile of road.	Proportion of cost for Michigan.
1 2 8 4 5	Ann Arbor Aroadia & Betsey River Au Sable & Northwestern Bay City Belt Line. Boyne City & Southeastern	\$14,836,867 88 138,119 72 243,796 08 113,059 37 85,282 62	\$47,358 59 5,418 59 2,257 87 18,975 20 5,830 16	\$14,052,715 84 138,119 72 243,796 08 113,059 37 85,282 62
6 7 8 9 10	Buchanan & St. Joseph Central Michigan Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	5,000 00 2,765,126 13 19,560,204 49 902,514 40	46,574 46 59,908 74 20,418 87	5,000 00 2,765,126 18 18,419,558 50 902,514 40
11 12 18 14 15	Chicago & Kalamazoo Terminal. Chicago, Miwaukee & St. Paul. Chicago & West Michigan. Chicago & North Michigan.	4,208 83	34,541 01 35,167 44 25,815 60 19,542 88	4,208 83 5,311,328 10 18,328,919 40 11,721,160 13 1,809,880 04
151 16 17 18 19 20	Jackson & Cincinnati. Cincinnati, Jackson & Mackinaw. Cincinnati, Saginaw & Mackinaw. Cieveland, Cincinnati, Chicago & St. Louis. Detroit, Grand Haven & Milwauke. Detroit, Lansing & Northern System.	8,228,827 58 85,861,368 27	60,921 28 47,575 47 37,383 56 35,024 64	9,636,989 91 3,228,827 58 1,671,720 84 7,065,492 33 7,760,409 93
21 22 28 24 25 26	Grand Rapids, Lansing & Detroit	1,303,636 27 568,586 65 4,978,152 65 44,856,063 58 21,405,784 05 1,120,000 00	28,472 02 13,356 51 16,795 39 78,459 47 28,978 82 68,711 66	1,303,636 27 568,586 65 4,978,152 65 36,497,776 24 21,405,784 05 1,120,000 00
27 28 29 30 81 32	Grand Rapids & Indiana System Muskegon, Grand Rapids & Indiana Traverse City. Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I Iron Range & Huron Bay	15,036,700 00 746,978 21 646,268 15 870,435 74 1,431,038 44 1,187,875 95	34,637 79 20,270 78 24,856 47 27,907 53 36,422 46 34,937 53	13,877,612 52 746,978 21 646,288 15 870,435 74 908,709 41 1,187,875 96
38 34 35 36 37 38	Lake Shore & Michigan Southern System Detroit & Chicago Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids	84,000,000 00 5,176,557 58 1,345,716 25 1,381,600 00	98, 298 50 76,576 29 20,639 82 22,155 22 24,820 00	18,312,517 66 4,789,416 54 1,345,716 25 1,196,381 88 1,238,168 79 1,450,000 00
39 40 41 42	Kalamazoo & White Pigeon Northern Central Michigan Sturgis, Goshen & St. Louis Lima Northern Lowell & Hastings Manistee & Grand Bapids	610,000 00 1,857,000 00	16,680 00 22,193 00	610,000 00 1,357,000 00
42 48 44	Lowell & Hastings	228,025 00 504,470 11	18,822 00 11,283 16	228,025 00 504,470 11
45 46	Manistique & Northwestern and Supplementary	1,774,977 19 471,222 83	19,613 00 7,919 71	1,774,977 19 471,222 83
46 47 48 49 50	Manistique. Manistique & Northwestern Mason & Oceana Michigan Air Line Railway Michigan Central System		7,222 22 17,216 83 115,215 58	195,000 00 1,818,097 33 25,462,682 18
51 52 58 54 55 56	Battle Creek & Sturgis Bay City & Battle Creek Canada Southern Bridge Detroit & Bay City Detroit, Delray & Dearborn Grand River Valley	1,009,602 34 557,502 84 1,780,977 05 3,744,297 78 46,251 98 2,867,058 00	24,620 54 80,972 35 486,605 75 84,378 88 9,556 19 84,229 17	1,009,602 34 557,502 34 1,780,977 05 3,744,297 78 46,251 98 2,867,053 00
57 58 59 60 61 62	Jackson, Lansing & Saginaw. Kalamasoo & South Haven. Michigan Air Line R R. Michigan Midland & Canada. Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit.	8,909,530 16 1,141,010 24 8,154,287 15 586,342 02 402,285 15 8,123,885 77	28,164 84 28,522 75 27,390 30 39,941 56 13,871 21 53,019 10	8,809,530 16 1,141,010 24 2,987,831 73 586,342 02 402,265 15 2,506,212 86

COMMISSIONER OF RAILROADS.

4.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONTINUED.

Proportion of cost for Michigan previous year.	Increased cost, 1898.		Total stock and debt.	Stock and debt per mile of road.	Excess of stock and debt over reported cost per mile of road.	cost over	
\$14,169,008 95 128,507 01 288,225 15 112,890 61 78,228 56	\$14,612 71 5,570 98 168 76 7,056 06	\$116,288 11	\$14,581,826 03 140,835 96 186,794 23 118,340 28 99,781 68	\$48,801 30 6,845 65 1,729 58 14,627 98 6,236 35	\$1,442 71 1,482 06 652 78 906 19	\$ 527 79	1 2 3 4 5
5,000 00 2,765,126 13 18,379,424 95	40,138 45 902,514 40		704,500 00 2,765,126 18 28,893,122 14 979,175 89	4,591 92 46,574 47 78,179 55 22,153 27	13,2:0 81 1,784 40		8 9 10
4,203 88 5,283,342 56 19,289,938 80 11,661,557 26 1,809,519 04	27,985 54 59,602 87 861 00	961,033 90	217,989,169 64 208,578,790 75 16,157,495 80	84,449 97 40,942 88 27,604 84	5,774 89 1,988 74	91 04	11 12 18 14 14
9,636,989 91 3,218,419 26 1,579,563 00 7,057,267 22 7,760,409 98	10,408 32 92,157 84 8,225 11		460,000 00 16,701,826 43 8,504,924 51 98,027,623 81 8,901,976 11 8,943,074 60	26,062 33 107,758 71 66,130 65 54,817 08 47,100 40 40,357 78	5,209 37 6,741 56 9,716 84 5,333 14		151 16 17 18 19 20
1,308,636 27 568,586 65 4,469,198 97 36,318,843 94 21,378,894 97 1,120,000 00	508,958 68 178,932 30 28,889 08		1,308,696 27 570,500 00 5,186,855 69 49,567,952 87 21,978,482 48 1,120,000 00	23,472 02 18,401 46 17,329 07 86,701 22 29,743 66 68,711 66	44 95 533 68 8,241 75 764 84		21 22 28 24 25 26
15,276,450 57 746,978 21 646,268 15 849,878 06 1,066,449 62 1,187,875 95	20,562 68	1,898,888 05	15,746,117 89 850,075 00 657,053 63 750,000 00 1,551,893 37 1,286,413 88	36,223 78 23,068 52 25,271 30 24,046 17 39,493 43 37,247 46	1,585 99 2,797 74 414 83 8,075 96 2,309 98	8,861 96	27 28 29 30 81 82
18, 312, 517 66 4, 818, 712 07 1, 345, 716 25 1, 196, 381 88 1, 238, 168 79 1, 450,000 00		29,295 58	94,516,000 00 1,000,000 00 1,330,000 00 1,338,100 00 2,727,548 00 1,450,000 00	98,346 00 16,048 50 20,705 52 21,457 66	47 50 65 70	60,527 79	38 34 35 36 37 38
610,000 00 1,357,000 00 			680,900 00 2,125,000 00 322,000 00 1,200,000 00 228,025 00	17,251 56 24,942 75 11,386 00 18,322 00	571 56 2,747 75		39 40 41 42 43
428,818 89 1,768,959 24 470,908 15 195,000 00 1,818,097 83	65,651 72 6,017 95 814 63		450,000 00 2,053,200 25 238,493 38 106,619 11 200,000 00 1,856,130 35	10,067 10 22,687 29 4,008 29 7,407 50 17,576 99	8,074 29 185 28 360 16	1,216 06 8,911 42	45 46 47 48 49
1,818,097 83 25,462,682 18 1,009,271 75 550,330 59 1,780,977 05 8,744,297 78 45,816 98	830 59 7,171 75		81,280,883 98 1,000,000 00 550,000 00 8,152,478 89 2,000,000 00 46,251 98 1,991,200 00	115,750 86 24,390 24 30,555 54 861,333 03 13,342 23 9,556 19 28,762 27	535 83 374,727 28	230 30 416 81 21,036 66	50 51 52 58 54 55
2,867,053 00 8,195,811 64 1,141,010 24 2,987,881 73 586,342 02 225,526 15 2,506,212 86	113,718 52		1,991,200 00 2,000,000 00 825,400 00 2,000,000 00 1,228,985 72 20,000 00 5,527,150 00	28,762 27 25,647 50 28,858 21 88,718 37 240 93 93,808 21	43,776 81	10,466 90 2,875 25 8,587 09 18,620 28	56 57 58 59 60 61 62

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ANNUAL REPORT OF THE

4.-COST OF PROPERTY COMPARED WITH STOCK AND DEBT.-CONTINUED.

Road number.	Railroads.	Total reported cost of property.	Cost per mile of road.	Proportion of cost for Michigan.
63 64 65 66	Midland & Hubbard	8,675 49	\$1,558 62 867 55 44,785 45 43,422 53	\$15,586 25 8,675 49 779,286 91 8,713,952 81
67 68 69 70 71	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System Saginaw & Grand Rapids	1,013,185 28 980,462 76 690,053 16	16,650 56 10,131 85 14,728 29 19,438 12 17,444 44	424,422 88 1,013,185 28 950,462 76 690,053 16 70,000 00
72 78 74 75 76	Sault Ste. Marie Bridge Co South Haven & Eastern St. Clair Tunnel. St. Joseph Valley. Superior Terminal	3,228,170 61 412,546 49	1,557,376 23 12,009 79 1,432,520 27 41,254 64	560,455 44 489,558 19 1,611,585 30 412,546 49
77 78 79 80 81	Toledo, Saginaw & Muskegon	2,024,560 00 133,433,500 00	31,826 28	3,249,365 50 979,077 22 6,138,697 08 2,364,558 36 2,308,649 83
1 2 3	ORE AND FOREST BOADS. Bear Lake & Eastern	57,184 76		125,491 92 57,184 76 51,010 96
4 5 6 7 8	Hecla & Torch Lake Lake Superior & Ishpeming. Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	790,282 84 2,214,036 60 24,781 82 365,633 89	105,363 77 108,001 79 2,478 18 5,803 71 38,152 29	790,282 84 2,214,036 60 24,781 82 865,633 89 228,913 78
	Total	\$1,026,961,967 64	\$45,288 60	\$303,185,907 94

4.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONCLUDED.

Proportion of cost for Michigan previous year.	Increased cost, 1596.	Decreased cost, 1896.	Total stock and debt.	Stock and debt per mile of road.	Excess of stock and debt over reported cost per mile of road.	Excess of reported cost over stock and debt per mile of road.	nam
\$15,151 95 8,675 49 778,894 69 8,620,928 81	\$434 80 872 22 93,023 50		\$15,586 25 11,047 29 1,300,397 85 58,575,858 14	\$1,558 62 1,104 75 74,735 51 45,782 68	\$237 20 29,950 06 2,360 15		61 61 61
1,012,689 84 958,830 22 690,058 16 70,000 00	424,422 88 495 44 21,682 54		1,270,881 38 1,160,221 17 1,385,890 60 920,135 09 70,000 00	49,858 03 11,602 21 20,818 54 25,919 30 19,444 44	33,207 47 1,470 36 6,090 25 6,481 18		67 68 70 71
560,455 44 439,558 19 1,611,651 36 365,989 42	46,557 07	\$66 08	1,900,000 00 443,077 00 2,862,721 99 412,546 49 61,200 00	1,557,876 23 12,105 92 1,272,820 88 41,254 64	96 13	\$160,199 39	72 72 74 71 76
3,249,365 50 935,550 00 6,138,697 08 2,280,951 82 2,804,911 31	43,527 22 83,606 54 8,738 54		3,940,003 54 2,249,542 56 133,534,000 00 2,250,000 00 2,310,694 40	41,041 70 85,397 99 80,722 00	7,194 14 3,571 71	50 83	71 71 71 81
125,491 92 57,184 76 51,010 96 686,230 12	104,052 72		118,855 71 50,000°00 52,010 96 790,282 84	6,297 53 5,000 00 8,389 26 105;363 77		674 24 718 47 8,728 51	
355,441 26 228,785 43	2,214,036 60 24,781 82 10,192 63 128 30		2,409,454 46 60,000 00 300,381 09 215,921 22	117,534 36 6,000 00 4,767 99 35,986 85	9,532 57 8,521 82	1,035 72 2,165 44	1
\$301,008,148 54	\$5,846,021 26	\$3,163,261 86	\$1,093,271,421 58	\$47,482 60			

ANNUAL REPORT OF THE

5.—Gross income—entire system.

Road No.	Railroads.	Traffic earnings.	Operating receipts other than for traffic earnings.	Total receipts from operation.
1 2 3 4 5	Ann Arbor	\$1,125,215 46 6,022 84 59,855 09 19,205 35	\$45,534 89	\$1,170,750 35 6,022 84 59,385 09 19,205 35
8 9 10 12 18	Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern	233,518 91 8,345,961 27 52,110 51 31,122,303 76 31,827,579 18	2,556 73 230,085 91 349,573 68	283,513 91 3,348,518 00 52,110 51 31,352,389 67 32,177,152 81
14 15 16 17 18	Chicago & West Michigan	1,641,323 34 699,084 70 128,377 62 12,745,489 66	1,298 76 8,001 66 477 78 265,972 96	1,642,617 10 707,086 36 128,855 35 13,011,462 62
19 20 23 24 25	Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette	921,807 95 1,151,428 30 898,448 01 1,872,982 56 2,118,798 12	56,013 02 14,361 66 32,827 97	977,820 97 1,165,784 96 398,448 01 1,905,810 53 2,118,798 12
26 27 30 31 83	Gogebic & Montreal Riv. (Op'd by Wis, Cent.) Grand Rapids & Indiana System	46,662 00 2,045,802 35 177,630 93 66,970 11 19,871,832 00	41 80 19,812 24 457 50 322,125 54	46,703 80 2,065,614 59 178,088 43 66,970 11 20,193,957 54
42 48 44 45 46	Lima Northern. Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary. Manistele	29,878 13 11,139 51 34,875 05 200,289 40 116,563 28	174 84 1,085 63 150 00	29,878 13 11,139 51 35,049 89 201,875 08 116,713 28
48 49 50 64 65	Mason & Oceana. Michigan Air Line Railway Michigan Central System Midland & Northern Midland & Roge	14,346 81 147,441 11 18,765,987 89 886 99 108,127 74	1,000 00 . 55,627 05	14,846 81 148,441 11 18,821,614 44 886 99 108,235 56
66 67 68 69 70	Minneapolis, St. Paul & Sault Ste, Marie Munising	8,664,771 40 85,793 99 119,596 58 110,083 53 21,519 24	28,272 40 118 25 156 00 619 96 65 57	8,688,043 80 35,912 24 119,692 53 110,703 49 21,584 81
72 78 74 77	Sault Ste. Marie Bridge Co. South Haven & Eastern. St. Clair Tunnel. Toledo, Saginaw & Muskegon	68,085 30 27,304 34 233,152 50 88,121 54	481 74 1 00 6,625 37	68,085 30 27,786 08 233,153 50 94,746 91
78 79 80 81	Wisconsin & Michigan Wabash Detroit Union R. R. Depot & Station Co. The Fort St. Union Depot Co.	109,021 06 11,963,308 39 112,099 19 126,149 22	194,817 56	109,021 06 12,158,125 95 112,099 19 126,149 22
1 2 4 5 6 7 8	ORE AND FOREST EGADS. Bear Lake & Eastern Crawford & Manistee River Heela & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	7,895 28 7,687 52 104,032 92 80,900 25 2,384 70 51,392 13 28,446 85		7,393 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 28,446 85
	Total	\$143,063,671 81	\$1,683,440 19	\$144,697,111 50

5.—GROSS INCOME-ENTIRE SYSTEM.—CONCLUDED.

Income from sources other than operating.	Total income, 1896.	Proportion for Michigan.	Proportion for Michigan, 1895.	Increase of income 1896.	Decrease of income, 1896.	Road No.
	\$1,170,750 35 6,022 84 59,385 09	\$1,026,167 27 6,022 84 59,385 09	\$993,070 19 960 83 52,286 21	\$38,097 08 5,062 51 7,098 88		1 2 8
	19,203 35	19,205 35	17,901 29	1,804 00		. 5
\$2,840 84 302,577 87	286,354 75 8,848,518 00 52,110 51 31,684,967 84 82,177,152 81	236,354 75 2,166,855 26 52,110 51 238,865 72 2,093,694 60	287,699 77 1,989,525 15 49,307 43 258,642 29 2,327,869 80	226,830 11 2,803 08	\$51,845 02 19,776 57 284,195 20	10 10 12 13
	1,642,617 10 707,086 86 128,855 35 13,011,462 62	1,585,451 18 320,081 08 128,955 35 181,084 72	1,612,536 54 316,544 80 135,732 90 188,377 08	3,536 28	77.085 41 6,877 55 2,812 31	{ 14 { 15 16 17 18
2,274 55 82,402 20 128,559 59	977,820 97 1,168,058 51 396,448 01 1,938,212 73 2,247,357 71	977,820 97 1,165,784 96 898,448 01 1,741,171 49 2,245,885 99	1,018,820 62 1,149,654 89 364,894 88 1,628,075 69 2,134,936 08	16,190 07 84,053 65 113,095 80 110,449 91	35,499 65	19 20 21 24 24
854,811 77	46,704 80 2,065,614 59 178,088 43 66,970 11 20,548,769 81	46,704 80 1,775,098 17 178,088 43 43,288 48 2,048,382 24	52,809 91 1,913,201 55 194,199 63 41,741 81 2,254,253 28	1,547 17	6,105 11 138,103 38 16,111 20 205,870 99	26 27 80 31 33
	29,878 18 11,139 51 35,049 89 201,875 03 116,718 28	2,321 35 11,189 51 35,049 89 201,875 08 116,718 28	10,647 04 37,837 72 205,652 05 117,228 07	2,321 85 492 47	2,787 88 4,277 02 514 79	42 48 44 45
94 00 39,685 34 12,500 00	14,346 81 148,585 11 18,861,299 78 886 99 120,735 56	14,846 81 148,535 11 7,508,208 64 886 99 120,785 56	18,695 91 175,488 58 7,542,893 69 1,468 38 118,569 19	7,166 87	4,849 10 26,948 47 34,685 05 581 84	48 49 50 64 65
842 82	8,718,906 13 35,902 24 119,692 53 111,546 31 21,584 81	760,889 85 35,902 24 119,692 53 111,546 31 21,584 81	606,829 78 110,215 85 114,170 99 84,057 72	174,540 67 85,902 24 9,476 68	2,624 68 62,472 91	66 67 68 69 70
	68,085 30 27,786 08 283,153 50 94,746 91	18,667 20 27,786 06 116,576 75 94,746 91	17,754 58 19,642 47 103,659 25 94,968 78	912 62 8,143 61 12,917 50	221 87	72 78 74 77
	109,021 06 12,158,125 95 112,099 19 126,149 22	34,118 22 347,806 67 112,099 19 128,149 22	41,232 56 450,524 12 149,584 33 123,474 81	2,674 91	7,119 34 102,717 45 37,485 14	78 79 80 81
	7,395 28 7,687 52 104,032 92 80,900 25 2,384 70 51,392 13 28,446 85	7,395 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 23,446 85	7,305 10 5,876 48 84,493 56 	90 18 1,811 04 19,559 86 80,900 25 2,384 70 3,084 19	23,418 86	1 2 4 5 6 7 8
\$907,451 11	\$145,604,562 61	\$29,022,999 96	\$29,209,114 48	\$917,866 72	\$1,103,481 24	

6.—EXPENSES.

Road No.	Railroads.	Maintenance of way and atructures.	Maintenance of equipment.	Conducting transportation.
1 2 3 5 8 9	Ann Arbor Arcadia & Betsey River Au Bable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	\$481,648 81 418 54 10,380 26 1,573 56 36,747 10 411,394 88	\$180,626 25 563 47 16,086 13 2,724 81 72,758 10 470,441 86	\$441,352 95 1,853 83 40,608 63 6,859 45 163,929 73 1,971,899 24
10 12 13 14 15	Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan	6,480 53 4,804,735 66 4,309,882 72 366,834 58	3,163 28 2,707,708 64 8,593,850 22 189,976 70	18,459 29 9,656,403 24 11,496,658 88 667,590 78
16 17 18 19 20	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cieveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	140,287 38 30,742 50 1,746,751 60 185,894 54 257,520 10	103,597 64 19,103 60 1,539,091 33 134,141 52 145,571 37	332,348 64 68,299 05 5,738,985 51 528,018 67 508,016 37
23 24 25 26 27	Detroit & Mackinac. Daluth, South Shore & Atlantic	82,206 71 305,226 22 827,893 03 9,757 94 383,184 20	36,088 92 153,413 87 214,809 04 5,860 05 837,928 89	126,601 81 714,218 61 921,499 71 22,018 58 877,899 87
30 31 33 43 44	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shora & Michigan Southern System Lowell & Hastings Manistee & Grand Rapids	17,564 22 16,054 42 2,209,142 69 2,927 58 9,115 39	16,242 02 5,638 76 2,767,409 69 766 31 3,414 87	67,061 00 51,188 02 7,664,427 18 6,695 25 8,493 97
45 46 48 49 50	Manistee & Northeastern and Supplementary Manistique Mason & Oceana Michigan Air Line Railway Michigan Central System	27,909 46 23,706 99 1,700 00 54,652 07 1,922,546 96	16,428 46 13,131 50 3,600 00 11,127 64 1,542,384 55	64,212 40 34,072 11 8,672 89 70,525 84 6,281,472 78
64 65 66 67 68	Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste, Marie Munising Pontiac, Oxford & Northern	9,712 78 384,586 96 2,303 28 25,570 92	7,583 96 419,372 09 1,056 97 6,943 20	1,820 48 33,112 92 1,265,006 01 12,897 13 38,485 80
69 70 72 73	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System Sault Ste. Marie Bridge Co. South Hayen & Eastern		14,812 41 988 42	38,449 82 10,601 32
74	St. Clair Tunnel	0,400 04	5,504 35 51,400 78	11,333 93 25,844 92
77 78 79 80 81	Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash Detroit Union R. R Depot & Station Co. The Fort St. Union Depot Co.	48,693 87 16,594 25 1,817,290 35	16,693 09 10,285 90 1,649,973 39	62,427 10 46,161 81 5,361,845 40
	ORE AND FOREST ROADS.			
1 2 4 5 6 7 8	Bear Lake & Eastern Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	1,820 49 3,574 14 17,573 52 4,050 10 5,575 97 9,932 94 7,654 66	613 69 1,242 85 1,497 70 205 85 8,983 38 4,278 94	2,518 30 2,675 75 83,849 46 28,414 32 1,509 88 14,396 88 15,901 77
	Total	\$20,587,190 27	\$16,508,586 41	\$55,611,597 18

6.-EXPENSES.-CONCLUDED.

General expenses includ- ing taxes.	Total expenses including taxes.	Proportion of expenses and taxes for Michigan.	Same for Michigan pre- vious year.	Increase, 1896.	Decrease, 1896.	Boad No.
\$79,831 86 207 44 3,759 46 400 77 15,386 97 263,159 48	\$1,183,459 87 3,043 28 70,834 48 11,558 59 288,821 90 8,116,894 96	\$1,160,027 36 3,043 28 70,834 48 11,558 59 288,821 90 2,018,748 65	\$1,048,627 27 624 87 92,087 13 10,749 25 315,067 35 1,835,877 28	\$111,400 09 2,418 91 809 84 177,871 37	\$21,252 65 26,245 45	1 2 3 5
6,333 46 2,296,239 84 1,826,532 98 97,078 82	34,436 56 19,465,057 38 21,226,924 80 1,321,475 88	34,436 56 191,921 94 2,199,114 44 1,243,091 68	82,539 99 226,274 86 2,046,498 51 1,320,057 43	1,896 57 152,615 93	34,352 92 76,965 75	10 12 13 14 14 15
60,784 96 6,101 91 1,054,970 16 55,522 68 79,472 33	636,968 57 124,247 06 10,079,798 60 903,577 41 990,580 17	288,340 38 124,247 06 112,000 49 903,577 41 990,580 17	285,861 56 131,912 50 110,450 75 931,172 27 893,351 52	2,478 82 1,549 74 95,228 65	7,665 44 27,594 86	16 17 18 19 20
36,204 79 100,283 44 124,996 38 4,981 22 124,098 58	281,102 23 1,273,142 14 1,589,198 11 42,617 79 1,723,111 54	281,102 28 1,106,574 90 1,587,719 23 42,617 79 1,522,891 47	259,158 42 1,027,014 15 1,607,377 06 53,074 99 1,601,403 72	21,943 81 79,560 75	19,657 83 10,457 20 78,512 25	22 24 25 26 27
11,232 75 1,426 73 1,085,175 16 275 35 4,130 56	112,099 99 74,907 93 13,726,154 67 10,664 49 25,154 79	112,099 99 47,876 27 1,876,838 37 10,664 49 25,154 79	105,898 40 48,403 72 2,024,982 58 11,701 73 18,631 94	6,201 59 	1,027 45 148,144 21 1,037 24	80 81 82 44
15,806 01 2,838 98 378 92 4,747 87 645,945 66	124,856 83 73,844 58 14,346 81 141,052 92 10,392,349 90	124,856 33 73,844 58 14,346 81 141,052 92 6,151,934 64	185,125 77 67,689 22 18,695 91 151,797 74 6,027,177 71	6,155 86 	10,769.44 4,849.10 10,744.82	48 48 49 50
9,413 32 222,226 77 2,003 04 10,181 29	1,820 48 59,822 96 2,291,191 83 18,260 42 81,181 21	1,820 48 59,822 96 556,218 41 18,260 42 81,181 21	1,862 95 60,036 13 425,586 41 73,060 83	30,680 00 18,260 42 8,120 38	42 47 238 17	64 65 67 68
12,850 83 1,360 78 11,891 22 8,735 96 8,853 93	91,566 44 16,765 05 11,891 22 82,748 46 91,083 42	91,566 44 16,765 05 3,519 90 32,748 46 45,541 71	89,246 70 66,009 64 2,811 42 15,906 44 43,957 60	2,819 74 708 48 16,842 02 1,584 11	49,244 59	66 70 72 78 74
4,682 82 13,105 27 742,825 66 25,884 29 8,343 84	132,446 88 86,147 28 9,571,434 80 25,884 29 8,343 84	182,446 88 26,705 64 292,694 84 25,884 29 8,343 84	113,420 21 22,948 19 402,024 48 27,900 52 8,583 38	19,026 67 3,757 45	109,329 64 2,016 23 239 54	77 78 79 80 81
621 10 117 53 2,629 74 2,927 18 157 08 3,653 22	5,573 58 7,610 27 104,052 72 31,889 90 7,448 73 36,966 42	5,573 58 7,610 27 104,052 72 31,889 30 7,448 73 36,966 42	6,181 59 5,801 30 84,493 56	1,808 97 19,559 16 31,889 30 7,448 73	608 01 	1 2 4 5 6 7 8
\$9,096,416 27	\$101,808,790 13	28,446 85 \$24,269,427 60	26,882 66 	\$955,480 33	\$667,108 28	8

7.-GENERAL EXHIBIT.-REVENUE AND DISBURSEMENTS.

No.		Total	Total	Net result fr'm
Road N	Railroads.	revenue from operation.	operating expenses in- cluding taxes	Surplus.
1 2 3 5 8	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	\$1,170,750 85 6,022 84 59,385 69 19,205 85 283,513 91	\$1,183,459 87 8,043 28 70,984 48 11,558 59 288,821 90	\$2,979 56 7,646 76
9 10 11 12	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago & Kalamazoo Terminal Chicago, Milwaukee & St. Paul	8,848,518 00 52,110 51 81,352,389 67	8,116,894 96 84,496 56 19,465,067 88	281,623 04 17,678 95 11,887,302 29
13 14 15 16 17 18	Chicago & Northwestern	32,171,132 01	21,226,924 80 1,321,475 88 636,968 57 124,247 06 10,079,798 60	10,950,228 01 821,141 22 70,117 79 4,608 29 2,931,664 02
19 20 28 24 25	Detroit, Grand Haven & Milwaukee Detroit, Lausing & Northern System Detroit & Mackinac. Duluth, South Shore & Atlantic Flint & Pere Marquette.	977,820 97 1,187,369 77 400,622 86 1,905,810 58 2,118,798 12	903,577 41 1,007,345 22 2×1,102 23 1,273,142 14 1,569,198-11	74,243 56 180,024 55 119,520 68 632,668 89 529,600 01
26 27 80 81 83	Gogebic & Montreal River (Op'd by Wis. Cent.)	20,193,957 54	43,617 79 1,728,111 54 112,099 99 . 74,807 98 18,726,154 67	4,087 01 842,509 05 65,988 44 6,467,802 87
48 44 45 46 48	Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern & Supplementary Manistique Mason & Oceana	11,139 51 85,049 89 201,375 03 116,713 28 14,346 81	10,664 49 25,154 79 124,356.33 73,844 58 14,346 81	475 02 9,895 10 77,018 70 42,868 70
49 50 64 65 66	Michigan Air Line Railway Michigan Central System Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie	148,441 11 13,821,614 44 886 99 108,235 56 3,688,043 80	141,052 92 10,392,849 90 1,820 48 59,822 96 2,291,191 83	7,388 19 8,429,264 54 48,412 60 1,396,851 97
67 68 69 72 73	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern	35,902 24 119,692 53 110,703 49 63,085 80 27,786 08	18,:60 42 81,181 21 91,566 44 11,891 22 22,748 46	17,641 82 38,511 32 19,137 05 51,194 08
74 77 78 79 80 81	St. Clair Tunnel. Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash Detroit Union R. R. Depot & Station Co. The Fort Street Union Depot Co.	112,158,125 95	91,083 42 132,446 88 86,147 23 9,571,434 80 25,884 29 8,843 84	142,070 08 22,873 83 2,586,691 15 86,214 90 117,805 38
	ORE AND FOREST ROADS.			
1 2 4 5 6 7 8	Bear Lake & Rastern Crawford & Manistee River Hecla & Toroh Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Toroh Lake	7,395 28 7,687 52 104,052 72 80,900 25 2,384 70 51,392 13 28,446 85	5,573 58 7,610 27 104,052 72 31,889 30 7,448 73 36,966 42 28,446 85	1,821 70 77 25 49,010 95 14,425 71
	Total	\$144,669,399 02	\$101,803,790 13	\$43,001,078 48

7.--REVENUE AND DISBURSEMENTS.--CONCLUDED.

year's business.		Pa	yable from inco	me.		٥
Deficit.	Interest on funded debt.	Interest on floating debt.	Rentals, etc.	Dividends.	Total.	Road No.
\$12,709 52		\$6,664 46			\$6,664 46	1
11,449 89						
55,307 99	\$65,700 00	43,800 00			109,500 00	
	660,000 00	89,196 83 14,368 52	\$13,945 50		763,141 83 14,368 52	10
	7,578,104 01					1
	6,390,319 49	221,412 50	18,213 88	\$8,718,268 44 3,517,757 50	11,286,872 45 10,142,708 37	_
	408,364 28				408,384 28	{1: 1: 1: 1: 1:
	86.250 00	5,259 10	44,491 19		49,750 29 86,250 00	1 19
	86,250 00 2,642,972 11		199,992 90	500,000 00	49,750 29 86,250 00 8,342,965 01	
	824,500 00	27,009 88 2,801 48	78,635 09		851,509 88 141,741 57 116,000 00	19 20 21 21 21 21
	65,305 00 116,000 00	2,001 40	10,000 00		116,000,00	2
	861,098 34 591,106 66	856 47			861,954 81 614,828 80	2
	591,106 66	22,216 64			614,828 80	i .
	463,491 97	45,337 83			FOR 890 90	2
	16,250 00	20,007 00		17,500 00	508,829 80 88,750 00	l å
7,887 82	8,117,745 00	58,850 00	629,119 89	2,967,990 00	6,768,104 89	2 2 3 3 3
			-		l	نها
						4
		5,414 56			5,414 56	4
		0,214 00			9,414 30	44
	75,488 34 1,067,800 00		1,633,239 27	749,520 00	75,433 84 3,450,559 27	45
933 49			1,055,259 21	149,520 00		2
	17,025 00 1,147,016 84	8,228 38 49,258 46	101,021 09	27,538 00	52,791 38 1,297,296 89	64 64 64
***************************************					 	6
	5,256 68			30,000 00	35,256 68	6
	45,000 00	68,548 08			65,348 08 45 000 00	65 65 77 73
4,962 38		527 88			35,256 68 68,548 08 45,000 00 527 23	7
***************************************	125,000 00 82,450 00 49,025 00 2,694,545 00				125,000 00 82,450 00 49,025 00 2,787,245 89	29
87,699 97	52,450 00 40 025 00				82,450 00	1 7
*************	2,694,545 00	35,000 00	57,700 89		2,787,245 39	"
	45,000 00				45,000 00	76 78 78 78 80 80
					*************	4
5,064 08	87,278 70	5,329 59			42,603 29	5
0+VUE V0			2,000 00		2,000 00	
	600 PRO 000 10	\$704,579 11	60 760 070 00	#11 ton 270 01	A10 Rec 211	-
\$125,464 59	\$28,778,082 42	37/04.579 11	\$2,768,858 70	\$11,528,578 94	\$43,769,544 17	

8.—GENERAL EXHIBIT, STATEMENT OF BALANCES.

Š.	Railroads.	Balance, Dece	mber 81, 1896.
Road No.	Railfonds.	Debit.	Credit.
1 2	Ann Arbor Arcadia & Betsey River	\$19,378 98	\$2,979 5
2 3	An Sable & Northwestern	11,449 89	l
Š	Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & U. G. T. Junction	164,807 99	7,646 7
9			
Ō.	Chicago, Kalamazoo & Saginaw		8,805 4
1 2	Chicago & Grand Trunk Chicago. Kalamazoo & Saginaw Chicago & Kalamazoo Terminal Chicago, Milwaukee & St. Paul		600,929 8
3			
5	Chicago & West Michigan	85,726 76	
6	Chicago & Northwestern. Chicago & West Michigan. Chicago & North Michigan. Cincinnati, Jackson & Mackinaw.		20,367 5
17	Cincinnati, Saginaw & Mackinaw Cieveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	81,641 71 211,308 09 277,266 32	
8 9 0	Detroit, Grand Haven & Milwaukee	277,286 82	
			48,902 8
23 24	Detroit & Mackinac	229,286 42	3,520 6
5	Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal Riv. (Op'd by Wis. Cent.)		44,839 8 4,087 0
-			
70112	Hancock & Calumet	100,320 23	32,238 4
1 2	Grand Rapids & Indiana System		
3	Lake Shore & Michigan Southern System Lowell & Hastings. Manistee & Grand Rapids. Manistee & Northeastern and Supplementary	300,401 52	475 0
14 15	Manistee & Grand Rapids		9,895 1 2,500 7
6			
ě	Michigan Air Line Railway	68,045 15	
4	Manistique. Michigan Air Line Railway. Michigan Central System. Midland & Northern	938 49	
5	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie		
8	Minneapolis, St. Paul & Sault Ste. Marie		99,555 5 17,641 8 3,254 6
	Munising Pontiac, Oxford & Northern		
19 10 12 13	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System Sault Ste. Marie Bridge Co. South Haven & Eastern	49,411 03	
2	Sault Ste. Marie Bridge Co.	2,00 74	
4	St. Clair Tunnel	120,149 97	17,070 0
8	Wisconsin & Michigan Wabash	26,151 17 200,554 24	
-	ORE AND FOREST ROADS.		
1	Bear Lake & Eastern Crawford & Manistee River Lake Superior & Ishpeming. Lewiston & Southeastern		1,821 7
1 2 5 6 7	Crawford & Manistee River.	188 76	6,407 6
ğ	Lewiston & Southeastern	5,064 03	12,425 7
8	Manistee & Luther		12,425 7
-	Total	\$2,576,839 02	\$1,784,844 1

8.—GENERAL EXHIBIT, STATEMENT OF BALANCES.—Concluded.

Balance forw	vard from 1895.	Taken to ac than from	count other m traffic.	Balance for	ward to 1897.	١,
Debit.	Credit.	Debit.	Credit.	Debit.	Credit.	
	\$4,448 55 335 96		\$8,612 71	\$6,312 72		Γ
	277.811 68				\$3,315 52 266,362 29 17,797 60	l
	10,150 84		164,807 99		17,797 60	l
\$824,640 15		• •172 155 Q1	594,189 32	485,175 53		
40223,010 10		\$173,155 91 3,305 43		100,110 00		ŀ
	8,031,481 64	229,830 00	302,577 67		8,705,159 15	l
	9,584,079 25	6,492,313 25	 		8,899,290 64	١.
	78,784 05			11,992 71		1
	46,197 61	49,750 29			66,565 11	ľ
46,083 44	454,602 87		57,855 28 7,792 90 277,266 82	69,869 87	251,087 18	
151,907 61	***************************************		277,266 82	108,004 79		1
101,501 01	407 007 04	70 400 04		100,002 19	70 000 00	1
980,775 43	185,235 91	59,466 01	82,402 20	1,177,659 65	79,290 53	
527 38	158,315 91				198,455 21 8,559 68	İ
8,797,175 01		80,985 01		3,994,486 27		ļ
	260,114 47				292,852 91	l
						l
8,905 90	11,637,485 08	156,675 14	854,811 77	8,430 88	11,585,220 14	l
' !	83,806 12				93,201 22	l
248,264 47				245,768 72	***************************************	l
	207,955 60		68,045 15 89,685 84		245,409 74	
1,438 31	7,152,979 66		89,685 84	2,371 80	7,181,870 27	
-,	159,613 88		12,500 00	_,	167,735 10	l
823,555 87		100,291 70		824,291 99	17,641 82	l
	9,121 08	8,768 92			3,606 75	
209,916 14 190,864 97		5,411 11	1,007 68	263,780 60		
190,864 97				196,985 71		l
	5,514 29				24 58	l
29,792 07 256,666 18 8,858 18			84,459 82	12,721 99 842,856 83 84,509 85 200,554 24		l
8,358 18				34,509 35 200 554 24		
**				200,002 DE		
	10.814 51				12,136 21	
	10,814 51 188 76				6,407 66	1
	85,471 85			5,064 08	97,471 85	
	85,471 85 12,993 21				12,992 21	
						-
\$ 7,0 7 8,871 11	\$88,039,426 18	\$7,309,902 77	\$1,955,984 15	\$7,935,182 18	\$33,156,153 32	1

9.—TRAFFIC EARNINGS.—ENTIRE SYSTEM.

ė.			Passenger
Road No.	Railroads.	Passenger fares.	Express and baggage.
1 2 3 5	Ann Arbor Arcadia & Betsey River	\$280,286 36 50 68	\$20,570 68
3	Au Sable & Northwestern	5,395 35	T .
8	Ann Arbor. Arcadia & Betsey River An Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	522 15 122,699 38 778,698 71	10,834 73 49,818 98
10			870 42
12	Chicago, Kalamazoo & Saginaw	17,578 64 5,932,099 16	859,198 98
13 14	Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan }	7,255,084 88	568,277 76
15	l	534,661 94	3 8, 6 52 77
16	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	170,987 59 84,653 21 8,828,029 36	84,599 96 1,809 87 858,468 26 27,762 71 23,580 00
17 18	Cincinnati, Sagina w & Mackinaw	84,653 21	1,869 87
19	Detroit, Grand Haven & Milwaukee	365,166 46 465,792 01	27,762 71
20			
23	Detroit & Mackinac Duluth, South Shore & Atlancie Flint & Pers Marquette. Gogebic & Montreal River (Op'd by Wis, Ceut.) Grand Rapids & Indiana System	75,412 61 471,793 32 598,860 00	1,749 22 39,358 69 51,639 82 597 71
24	Duluth, South Shore & Atlancie	471,798 82 500 HEO OO	39,358 69
23 24 25 26 27	Gogebic & Montreal River (Op'd by Wis. Cent.)	4,240 60	597 71
27	Grand Rapids & Indiana System		45,869 88
80	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System	11,809 90 16,880 36	883 89
31 88	Indiana & Lake Michigan (Up'd by Terre Haute & I.)	4,520,045 27	615 25 647,191 81
42	Lima Northern	1 9.086.55	1,800 00
43	Lowell & Hastings	_,	86 68
44	Manistoe & Grand Rapids	1,042 42 38,476 79 9,244 99 1,652 51 30,493 91	1,202 95
45 43	Manistique	9.244 99	1,202 %
48 49	Mason & Oceana	1,652 51	2,499 96
	Michigan Air Line Ballway	90,489 91	
50 64	Michigan Central System Midland & Northern Mineral Range Minnespolis, St. Paul & Sault Ste. Marie. Munising	3,545,656 40	409,628 88
65	Mineral Range	31,132 19	1,658 0
66 67	Minneapolis, St. Paul & Sault Ste. Marie	475,082 18 8,436 80	87,877 36 328 85
68			
69	Saginaw. Tuscola & Huron	34,403 04 35,827 58 11,439 48	2,171 2 727 1
69 70 78	Saginaw Valley & St. Louis System.	11,439 48	1 420 00
74	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System. South Haven & Eastern St. Clair Tunnel	18,623 84	1,228 0
77			902 00
78	Wisconsin & Michigan	11,926 20	152 19
79 80	Wabash Detroit Union P. P. Denet & Station Co.	2,986,035 73	800,108 12
81	Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash Detroit Union R. R. Depot & Station Co The Fort Street Union Depot Co.		
	ORE AND FOREST ROADS.		
1	Rear Lake & Rastern	94 70	
2	Bear Lake & Eastern Crawford & Manistee River		
4	Hecla & Torch Lake.		
6	Lewiston & Southeastern		
1 2 4 5 6 7 8	Heola & Toroh Lake. Lake Superior & Ishpeming Lewiston & Southeastern. Manistee & Luther Quincy & Toroh Lake	197 00	
8	Quincy & Porch Lake		
_	Total	\$38,806,719 61	\$3,541,646 7

9.—TRAFFIC RARNINGS.—Concluded.

lepartment.			Fre	ight departn	ent.		l,
Mails.	Other sources.	Total.	Freight.	Other sources.	Total.	Total traffic earnings.	Dana Wa
\$88,952 84	\$4,003 19	\$293,793 07 50 68	\$723,878 92 5,972 16	\$107,543 47	\$831,422 89 5,972 16	\$1,125,215 46 6,022 84	
1,742 76 907 24 9,749 60 71,972 64	21,837 43	50 68 7,138 11 829 39 143,223 71 921,822 76	52,246 98 18,018 01 90,230 20 2,424,138 51	857 95	52,246 98 18,375 96 90,220 20 2,424,188 51	59,385 09 19,205 85 233,513 91 3,345,961 27	
1,923 60 1,198,797 00 881,769 57	266 40 880,806 45	20,639 06 8,370,901 59 8,703,082 21	81,225 04 22,751,402 17 23,122,496 97	246 41	31,471 45 22,751,402 17 23,122,496 97	52,110 51 81,122,303 76 31,827,579 18	
66,436 87		639,751 58	993,261 99	8,809 77	1,061,571 76	1,641,828 84	1
25,252 96 4,166 33 582,178 14 80,227 33 51,374 54	8,573 10	230,790 51 40,689 41 4,718,695 76 426,729 60 540,746 58	468,294 19 87,688 21 8,026,813 90 495,078 35 610,676 72		468,294 19 87,688 21 8,026,813 90 495,078 85 610,676 72	699,084 70 128,877 62 12,745,489 66 921,807 95 1,151,428 80	
13,839 22 51,871 83 66,926 15 316 29 52,820 21	18,138 43 14,713 41	90,501 05 563,023 84 730,564 40 5,154 60 725,996 65	307,946 96 1,305,339 12 1,388,233 72 41,359 95 1,314,451 41	4,619 60 147 45 5,854 29	307,916 96 1,309,938 72 1,388,233 72 41,508 40 1,319,805 70	398,448 01 1,872,982 56 2,118,798 12 46,662 00 2,045,802 85	
669 01 2,857 74 1,415,553 00 547 84	161 00	12,812 80 20,353 35 6,582,790 08 10,886 55 8,649 02	164,818 13 46,616 76 13,043,049 87 18,991 58 7,490 49	245,992 05	164,818 13 46,616 76 13,289,041 92 18,991 58 7,490 49	177,690 93 66,970 11 19,871,832 00 29,878 13 11,139 51	
4,418 34 1,753 16 1,256 20 8,338 00		1,042 42 44,098 08 10,998 15 2,908 71 41,331 87	33,832 63 156,191 32 105,565 13 11,438 10 106,109 24		33,832 63 156,191 82 105,585 13 11,438 10 106,109 24	84,875 05 200,289 40 116,563 28 14,346 81 147,441 11	
398,240 85 1,330 59 160,927 70 569 81	25,171 95	4,853,525 68 34,120 80 698,559 19 4,334 46	9,412,461 76 886 99 73,455 02 2,959,452 23 31,449 53	551 92 6,759 98	9,412,461 76 886 99 74,006 94 2,966,212 21 31,449 53	18,765,987 39 886 99 108,127 74 3,664,771 40 35,793 99	
7,663 04 5,178 28 1,055 40 1,880 14	12 00	44,249 30 41,782 90 12,914 88 16,731 99 43,636 00	75,287 28 68,350 63 8,604 36 10,572 85 189,516 50		75,287 23 68,350 63 8,604 36 10,572 35 189,516 50	119,586 53 110,083 53 21,519 24 27,304 34 238,152 50	
7,274 01 1,898 60 507,027 96	87 80 78,253 45	28,572 54	61,549 00 87,917 13 7,878,077 70	7,626 94 213,805 43 112,099 19 126,149 22	61,549 00 93,544 07 8,091,883 13 112,099 19 126,149 22	88,121 54 109,021 06 11,963,908 39 112,099 19 126,149 22	
		24 70	7,370 58 7,687 52 104,052 92 80,900 25 2,384 70 51,195 13 28,446 85		7,870 58 7,687 52 104,082 92 80,900 25 2,384 70 51,195 13 28,446 85	7,393 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 28,446 85	
						20,990 00	-
5,627,563 74	\$590,607 11	\$43,068,587 28	\$99,092,475 11	\$889,568 67	\$99,932,088 78	\$148,000,576 01	1

10.-ANALYSIS OF EARNINGS AND EXPENSES-ENTIRE LINE.

				To	tal receipts
Road numb'r.	Railroads.	Miles of road operated.	Total		Per train
Road			income.	Passenger.	Freight.
1 2 8 5 8	Ann Arbor	802.78 17.50 108 16 59.87	\$1,170,750 35 6,022 84 59,385 09 19,205 35 236,354 75	\$0 67.88 	\$1 42.78 48 97 98
9 10 12 18 14	Chicago & Grand Trunk. Chicago , Kalamazoo & Saginaw. Chicago Milwaukee & St. Paul. Chicago & Northwestern. Chicago & West Michigan.	l	8,848,518 00 52,110 51 31,654,967 34 32,177,152 81 1,642,617 10	83 36.1 1 02.66 87.44 81	1 08 1 13 1 63.36 1 41.43 1 33
16 17 18 19 20	Cincinnati, Jackson & Mackinaw		707,086 36 128,855 85 18,011,462 62 977,8:0 97 1,189,643 32	46 62 88 87 47	96 2 03 1 28 1 18 53
23 24 25 26 27	Detroit & Mackinac. Duluth, South Shore & Atlantic	296.40 588.33 783.66 16.30 584.79	398,448 01 1,938,212 78 2,247,357 71 46,704 80 2,063,614 59	59 82 69 27 79	1 24 1 61.80 1 19 2 46 1 58
30 81 83 42 43	Hancock & ('alumet	81.42 39.29 1,439.66 87.07 12.50	178,088 43 66,970 11 20,548,769 31 29,878 18 11,139 51	48.92 34 1 41	1 04.87 1 40 1 80
44 45 46 48 49	Manistee & Grand Bapids Manistee & Northeastern and Supplementary Manistique Mason & Oceana Michigan Air Line Bailway	59.50 37 105.60	85,049 89 201,375 08 116,713 28 14,346 81 148,535 11	05 41 17 17 58	1 58 1 78 1 64 88 91
50 64 65 66 67	Michigan ('entral System Midland & Northern Mineral Range Minnespolis, St. Paul & Sault Ste. Marie Munising	1,642.87 10 17.40 1,188.71 25.49	18,861,299 78 886 99 120,735 56 8,718,906 18 35,902 24	1 03 85.87 68.51 1 12	1 64 1 26.84 1 84.72 2 46
68 69 72 73 74	Pontiac, Oxford & Northern Saginaw, Tuscola & Hurou ault Ste. Marie Bridge Co. South Haven & Eastern. St. Clair Tunnel.	100.59 66.57 86.60 2.25	119,692 58 111,546 31 63,085 30 27,786 08 283,153 50	55 48 27.88	1 60 1 7.25
77 78 79 80 81	Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash Detroit Union R. R. Depot & Station Co The Fort St. Union Depot Co	96.00 72.07	94,746 91 109,021 (6 12,158,125 95 112,099 19 126,149 22	36 28 80.96	84 1 87 1 41.88
1 2 4 5 6 7 8	OBE AND FOREST BOADS. Bear Lake & Eastern Crawford & Manistee River Hecla & Toroh Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Toroh Lake	18 10 7.50 20.50 10 63 6	7,395 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 28,446 85		72 6.15 61 1 82
	Total	25,075.14	\$145,604,562 61	\$0 94.60	\$1 57.4

10.—ANALYSIS OF EARNINGS AND EXPENSES-ENTIRE LINE.—CONCLUDED.

rom ope	ration.	Оре	erating ex	penses.	•	Net mile ope	per erated.	Net :	per nile.	ber.
nile. Total.	Per mile of road.	Total expenses and taxes.	Per mile of road.	Per train mile.	Per- centage of ex- penses to earnings.	Surplus.	Deficit.	Surplus.	Deficit.	Road number.
\$1 13.39 43 74 80	\$3,498 83 344 17 549 86 1,200 33 3,933 20	\$1,183,459 87 3,043 28 70,834 48 11,558 59 288,821 90	\$8,909 29 173 90 655 88 722 41 4,864 78	\$1 26.68 52 44 98.99	101.08 50.53 119.28 60.00 110.84	\$170 27 477 92 931 58	\$410 48 106 02	\$0 80	40 13.29 09 18.69	
1 00 61.3 1 41.99 1 22.33 1 06	9,987 53 1,178 97 5,097 88 6,396 06 2,826 67	3,116,894 96 34,436 56 19,465,087 38 21,226,924 80 1,321,475 88	9,296 67 779 10 3,164 67 4,219 41 2,274 03	93 40.5 88.15 80.69 85	93.08 66 62.08 65.97 80.45	374 56 399 87 1,982 66 2,176 65 552 64		07 20.8 53.84 41.64 21		1
72 1 18 1 09 1 07 50.05	1,730 64 2,431 23 7,078 71 5,173 66 3,096 30	636,968 57 124,247 06 10,079,798 60 903,577 41 1,007,345 22	1,559 01 2,344 28 5,483 78 4,780 83 2,659 16	65 1 14 84 99 43	90.08 96.42 85.45 92.41 84.67	171 63 86 95 1.594 93 392 83 437 14		07 04 25 08 07.05		
1 00 1 27.87 95 1 30 1 18	1,851 63 3,239 36 2,777 07 2,865 32 4,151 65	281,102 23 1.273,142 14 1,589,198 11 42,617 79 1,723,111 54	948 12 2,168 99 2,082 93 2,614 58 3,463 26	70 85.9 71 1 18.41 98	70.19 66.80 75 91.25 83.42	403 51 1,075 87 694 14 270 74 687 39		30 41.47 24 11.59 20		
97.13 72 1 67	5,668 00 1,704 51 14,026 89 343 15 891 16	112,099 99 74,307 93 13,726,154 67 10,664 49	3,567 79 1,891 27 9,534 52 853 16	61.14 80 1 14 	62.95 111 67.97	100 21 4,492 87 38 00	286 76	35.99 53 03	08	
1 63 1 01 1 82 44 75	783 94 2,225 14 1,961 57 531 36 1,405 69	25,154 79 124,356 33 73,844 58 14,346 81 141,052 92	562 64 1,874 10 .1,241 09 581 36 1,385 78	1 17 62 1 15 44 72.22	77.17 61.8 63 100 95	221 32 851 03 720 48 69 96		46 39 67 04.88		
1 82 1 09.83 1 41.94 2 81	8,415 65 6,220 43 3,102 56 1,408 81	10,392,849 90 1,820 40 59,822 96 2,291,191 83 18,260 42	6,827 65 8,438 10 1,977 99 716 38	99 60.70 88.18 1.43	75.19 205 55.27 71.91 50.86	2,068 00 2,782 88 1,085 05 692 11		82.69 49.13 40.99 1.38		
72.65 85 45.33	1,196 92 1,662 96 759 18	81,181 21 91,566 44 11,891 22 82,748 46 91,083 42	811 81 1,375 49 894 77	49.28 70 58.50	67.82 82.71 112	385 11 287 47	135 59	28.87 15	08.17	
64 1 09 1 14.09	809 80 1,512 61 6,178 76	132,446 88 86,147 23 9,571,434 80 25,884 29 8,343 84	1,132 02 1,195 23 4,943 42	90 86 91.28	139.79 79 80.01	317 38 1,235 84	322 22	23 22.81	26	
72 1 93 6 15 61	410 85 768 75 13,874 90 8,946 85 238 47 815 74 4,741 14	5,573 58 7,610 27 104,052 72 31,889 30 7,448 73 36,966 42 28,446 85	309 64 761 03 13,874 30 1,555 57 744 87 586 77 4,741 14	71.07 1.93 2.42 1.91	75.78 98.99 100 39.42 820.80 72 100	101 21 7.72 2,890 78 228 97	506 40	8.78	1 30	
\$1 26.5	95,806 71	\$101,803,790 13	\$4,475 24		69.91					

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ANNUAL REPORT OF THE

11.—TRAIN MILEAGE AND TRAFFIC. (ENTIRE SYSTEMS.)

Road No.	Railroads.	Passenger trains, miles.	Freight trains, miles.	Total for trains earning revenue.
1 8 5 8 9	Ann Arbor. Au Sable & Northwestern Boyne City & Foutheastern Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk	427,219 27,800 7,050 191,595 1,093,067	506,995 109,860 18,780 67,059 2,063,696	984,218 137,160 25,830 291,766 3,368,036
10 12 18 14 16	Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan. Cincinnati, Jackson & Mackinaw	1 9.732.602	27,810 13,1 8,992 15,682,502 751,463 401,623	84,894 22,081,048 26,304,524 1,545,448 980,857
17 18 19 20 23	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwankee Detroit, Lansing & Northern System Detroit & Mackinac	65,021 5,594,936 441,555 636,708 137,400	40,486 6,074,751 267,252 490,600 200,210	109,048 11,571,067 910,803 1,147,308 401,600
24 25 26 27 30	Duluth, South Shore & Atlantic	1 1 020 704	761,444 1,122,794 16,859 774,399 157,169	1,496,239 2,231,282 35,992 1,754,236 183,359
31 33 42 43 44	Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings Manistee & Grand Rapids	1 52.800	33,286 7,391,380 4,400	92,546 12,046,719 88,880 20,000 21,477
45 46 48 49 50	Manistee & Northeastern and Supplementary	89.580	52,939	203,193 64,180 30,000 191,298 10,487,358
65 66 67 68 69	Mineral Range. Mineapolis, St Paul & Sault Ste. Marie. Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron.	89,970 959,410 65,193 87,366	58,574 1,398,218 8,914 38,242 42,777	98,544 2,598,291 12,790 164,735 180,143
70 78 77 78 79	Saginaw Valley & St. Louis System South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	16,416 56,434 48,290 4,780,308	6,968 176 51,114 5,705,280	28, 384 61, 220 147, 248 99, 404 10, 485, 563
2 4 5 6 7 8	ORE AND FOREST ROADS. Crawford & Manistee River Feels & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake		10,600 54,000 13,150 3,900	10,600 54,000 18,150 8,900
	Total	45,526,886	63,474,414	118,057,984

11.-TRAIN MILEAGE AND TRAFFIC.-CONCLUDED.

Through passengers, number.	Local pastengers, number.	Total passengers, number.	Total passengers previous year, number.	Passengers carried 1 mile, number.	Passengers carried 1 mile, previous year, number.	Boad No.
158	303,844 1,740 180,268	304,002 8,976 1,740 221,500	253,399 8,378 3,000 328,039	10,669,160 12,180 5,160,109	10,809,779 8,273 21,000 6,270,601	1 8 5 8
2,970 178,866	1,129,778 88,225	1,198,384 41,195 7,330,916	1,314,028 46,237	47,545,648 684,179	55,828,900 788,610	10 12 13
113,745 5,026 16,742	7,152,050 14,282,239 761,811 817,331	14,395,984 766,837 334,078	7,411,530 15,438,390 851,099 309,257	262,766,915 351,253,583 24,972 288 8,812,476	259,568,631 859,785,067 27,711,322 7,428,138	18 14 16
7,169 336,902 3,025 19,609	57,053 4,840,265 547,933 646,273	64,222 5,177,167 550,958 665,887	70,953 5,534,240 588,809 648,889	1,569,335 189,843,185 16,016,951 22,161,869 3,278,209	1,586,384 201,742,675 17,467,842 20,759,054	17 18 19 20 23
47,173 28,404 18,523 49,975	321,278 948,923 15,047 908,344	73,207 368,451 977,827 33,570 958,319	69,467 355,979 1,070,197 30,040 1,081,040	17,234,390 28,099,819 144,139 28,257,233	2,482,956 15,422,530 30,009,707 148,471 29,464,357	24 25 26 27 30
2,975 98,312 925	60,619 29,568 4,421,575 27,807	32,543 4,519,887 28,732	55,499 30,702 4,627,175	373,266 802,832 211,120,596 797,336	352,998 792,057 210,966,572	31 33 42 43 44
8,163	15,900 1,903 66,467 11,500	15,900 1,903 74,680	85,753 11,433	111,300 45,676 1,730,876	1,911,382	43 44 45 46
21 220,467	11,500 4,131 80,415 2,343,592	11,500 4,181 80,436 2,564,059	11,433 6,433 87,277 2,663,141	230,000 70,227 1,138,479 156,317,124	251,526 77,196 1,142,636 163,092,848	46 48 49 50
40,333 499 6,034	125,625 234,904 11,552 61,251 55,850	125,625 275,237 11,552 61,750 61,884	108,771 248,947 67,235 54,575	1,217,721 22,143,538 86,896 1,369,609 1,653,178	977,738 19,991,818 1,472,881 1,515,615	65 66 67 68 69
230 349 1,402	21,756 33,062 81,231 20,228	21,986 38,062 31,580 21,630 8,270,701	88,433 32,871 43,597 12,027 3,591,541	417,897 462,868 726,387 389,350 142,660,692	1,678,535 388,625 1,074,151 333,451 155,633,078	70 73 71 78 79
						2 4 5 6 7 8
	828	328	439	6,560	10,802	6 7 8
1,817,885	40,111,666	44,782,385	47,243,450	1,562,358,996	1,608,584,611	

12.-TRAFFIC.-ENTIRE SYSTEMS.

Road No.	Raiiroads.	Average distance traveled by each passenger.	Average fare paid by each passenger.	Average through rate per mile.
1	Ann ArborAu Sable & Northwestern	35.09	\$0 75.07	\$0 02.05
3 5	Au Sable & Northwestern		30	····
8	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	23.30	55.39	02.34
9	Chicago & Grand Trunk	89.70	64.98	01.50
10	Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw	16.61	48	02.70
12	Chicago, Milwaukee & St. Paul	35.84	80.91	. 02.35
18	Chicago & Northwestern	24.89	50.39	02.19
14 16	Cincipacti Taskson & Mackinson	32.56 26.38	69.72 51.17	01 02.08
10			31.17	02.00
17	Cincinnati, Saginaw & Mackinaw	24.40	53.96	01.95
18	Cleveland, Cincinnati, Chicago & St. Louis	36.70 29.1	74 66.28	01. 9 3 02.11
30	Detroit Lancing & Northern System	29.1 82.11	71.72	02.11
19 20 23	Detroit, Lansing & Northern System Detroit & Mackinac	44.78	. 103	
		10 50	4 60 64	20. 10
24	Flint & Para Marguetta	46.77 28.75	1 28.04 60.76	02.48 01.95
26	Gogebic & Montreal River (Op'd by Wis. Cent.)	4.29	12.63	02.97
24 25 26 27 80	Duluth, South Shore & Atlantic. Flint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System.	29.48	64	02.01
80	Hancock & Calumet	6.15	19.48	
31	Indiana & Lake Mich. (On'd by Terra Haute & I.)	25	52	02
33 42	Indiana & Lake Mich. (Op'd by Terre Haute & I.). Lake Shore & Michigan Southern System	46.7	1 00	02.07
42	Lima Northern	27.7	32	01.2
43	Lowell & Hastings	7 24	18 55	
	manistee & Grand Mapids		90	
45 46 48	Manistee & Northeastern and Supplementary	23.9	. 51.5	02.2
46	Manistique	20 14	80 40	
49	Michigan Air Line Railway	14.15	37.91	02.60
50	Mason & Oceana Michigan Air Line Railway Michigan Central System	. 60.96	1 38	02.02
		i l		
64 65	Midland & Northern	9.69	24.78	
66	Minneapolis, St. Paul & Sault Ste. Marie	80.45	1.73	01.69
67	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiae, Oxford & Northern	7.5	30	
68			.55.7	01.89
69	Saginaw, Tuscola & Huron	26.71	57.89	02.08
70	Saginaw Valley & St. Louis System	19	52.08	02.71
73	South Haven & Eastern	14 23	41	02.33
70 73 77 78	Wisconsin & Michigan	23 18	58.14 55	02.83 02.78
79	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System South Haven & Beatern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	43.5	91.30	
- 1				
	ORE AND FOREST ROADS.			
2	Crawford & Manistee River			
4	Hecla & Torch Lake			
5	Lawiston & Southeastern		•••••••	
7	Manistee & Luther	20	60	
8	Crawford & Manistee Biver Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake			
	Total	34.88	80 74.87	
J	~~vat	V2.00	40 12.01	

12.-TRAFFIC.-CONCLUDED.

Average local rate per mile.	Average rate per mile for all passengers.	Tons of through freight moved.	Tons of local freight moved.	Total tons of freight moved.	Total tons of freight moved previous year.	Road No.
\$0 02.15	\$0 02.16	118,389 140,000	851,674	970,068 140,000	976,148 59,375	1 8
04.28 02.40 01.77	04.28 02.37 01.64	526 36,742 1,055,651	36,499 280,405 682,754	37,025 267,147 1,688,405	39,382 382,390 1,550,202	1 8 5 8 9
02.60 02.24 02.05 02.17 01.98	02.6 02.25 02.06 02.14 01.94	42,068 2,725,525 380,104 22,375 135,880	18,706 9,234,270 15,392,538 1,152,352 519,978	60,774 11,959,795 15,772,642 1,174,727 655,858	45,761 11,351,945 16,215,091 1,205,263 612,684	10 12 18 14 16
02.29 02.04 02.29 02.23	02.21 02.01 02.28 02.24 02.30	40,134 4,558,094 95,815 86,841	104,995 3,483,454 432,579 497,444 423,836	145,129 8,041,548 528,694 584,285 433,836	159,689 8,848,275 507,045 595,750 485,107	17 18 19 20 28
02.88 02.12 02.92 02.18 03.16	02.78 03.11 02.94 02.16 03.16	505,675 575,748 745,528 167,759	1,832,722 1,030,130 1,176 1,438,112 1,118,980	2,338,397 1,605,878 746,704 1,605,871 1,118,980	2,181,288 1,528,694 919,555 1,681,419 1,069,002	24 25 26 27 30
02.1 02.16 01 02.57	02.1 02.14 01.1 02.57 02.4	92,931 2,229,614 63,433	* 31,081 11,432,805 8,706 13,543 64,275	124,012 13,662,419 72,189 13,543 64,275	119,396 14,382,641 12,745 57,268	81 83 42 43 44
02.2 04 08 02.67 02.40	02.2 04 03 02.67 02.28	16,115 13,375 1,828,489	243,149 188,595 22,876 200,581 5,452,881	259,264 188,895 22,876 213,906 7,276,270	842,907 188,191 30,000 271,068 7,470,951	45 46 48 49 50
02.55 02.41 08.9 02.53	02.55 02.05 08.9 02.51	946,409 1,636 2,851	124,025 1,169,248 77,006 83,741	124,025 2,115,657 78,642 86,092	8,500 107,387 1,783,763 79,874	64 65 66 67 68
02.18 02.73 03 02.54 03.11	02.16 02.73 03 02.53 03.06 02.09	23,484 258 11,511 58,971	71,782 19,208 8,275 68,598 65,474 5,879,674	95,286 19,486 8,275 80,109 119,445 5,879,674	114,642 68,822 7,876 82,873 96,822 6,051,392	69 70 73 77 78 79
08	08	. 81,147 299,854 11,218 555,648	1,459,622 202 51,400	31,147 1,459,622 299,556 11,213 51,400 555,548	24,227 1,413,860 74,806 495,401	2 4 5 6 7 8
	\$0 02.13	17,608,638	63,179,851	82,788,489	88,618,352	

13,-TRAFFIC.-ENTIRE SYSTEMS.

			Mile	age.	
Road No.	Railroads.	Through freight,	Local freight.	Total or tons moved one mile.	Moved one mile previous year.
1 3 5 8 9	Aun Arbor Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	35,374,633 3,6 ⁵ 2 2,094,387 347,694,231	71,277,671 547,485 5,213,687 87,395,040	106,652,304 551,167 7,308,024 435,089,271	99,360,425 48,376 506,280 11,865,514 889,610,957
10 12 18 14 16	Chicago, Kalamazoo & Saginaw	673,781 542,859,753 140,524,012 2,663,065 12,669,086	419,467 1,755,486,904 2,190,768,692 89,932,136 53,018,589	1,098,248 2,298,346,657 2,331,292,704 92,595,201 65,717,675	814,044 2,119,705,624 2,108,592,211 86,412,213 56,858,321
17 18 19 20 23	Cincinnati. Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis. Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System Detroit & Mackinac	2,127,102 909,744,481 18,108,078 18,032,699	8,192,675 381,494,246 23,588,871 39,687,556	5,319,777 1,291,238,727 41,696,949 52,720,255 16,485,768	5,815,705 1,403,341,090 36,947,322 51,944,882 14,358,531
24 25 26 27 30	Duluth, South Shore & Atlantic	76,314,805 109,219,125 4,159,292 18,118,856	85,453,347 80,009,447 7,056 135,597,762 6,517,866	111,768,152 188,228,572 4,166,348 153,716,618 6,517,866	106, 192, 449 162, 843, 175 4, 776, 516 173, 932, 708 6, 541, 289
31 33 42 43 44	Indiana & Lake Mich, (Op' by T. H. & I.) Lake Shore & Michigan Sonthern System Lima Northern Lowell & Hastings Manistee & Grand Rapids	3,275,518 746,489,669	1,011,514 1,630,544,449	4,287,032 2,377,034,118 266,784 94,801 1,636,934	4,349,919 2,475,757,176 89,215 1,058,405
45 46 48 49 60	Manistee & Northeastern and Supplementary Manistique Mason & Oceana Michigan Air Line Railway Michigan Central System	-	8,116,218 10,685,277 702,589,796	8,552,560 5,026,585 297,388 12,103,027 1,480,251,521	9,506,809 5,432,493 660,000 15,954,056 1,487,989,830
65 66 67 68 69	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron	221,415,344 9,816 216,602 798,210	1,024,921 239,607,237 958,576 2,663,520 2,744,075	1,024,921 461,022,581 968,392 2,880,122 8,542,285	970,202 401,682,823 2,557,605 3,646,060
70 78 77 78 79	Saginaw Valley & St. Louis System. South Haven & Eastern Toledo, Saginaw & Muskegon. Wisconsin & Michigan Wabash	11,610 1,321,554 1,786,440	420,755 2,812,158 1,386,918	482,365 182,050 4,133,712 3,178,858 1,142,477,577	1,561,028 168,348 4,092,296 2,156,432 1,195,942,921
2 4 5 6 7	ORE AND FOREST BOADS. Crawford & Manistee River	6,133,769	2,988	10,947,165 6,196,757 112,130	242,270 10,614,550
8	Manistee & Luther Quincy & Torch Lake			3,333,258	2,972,406
	Total	3,995,385,867	7,564,176,899	12,740,422,706	12,472,334,620

13.—TRAFFIC.—Concluded.

	Ton haul.				Rates.		:	
Through miles.	Local miles.	All miles.	Average amount each ton hauled.	Per ton per mile, through.	Per ton per mile, local.	Per ton per mile, all.	Average per ton per mile, previous year.	Road N .
298.8	83.7	109.9	\$0 74.62	\$0 00.24	\$0 00.89	\$0 00.67	10 00.69	!
7 57 829.4	15 22.63 138.1	14.9 27.86 257.7	49 38.78 1 43.58	03 01.33 00.46	03 01.19 00.93	08 01.23 00.56	08.2 00.92 00.52	
16.01 199.18 870 119.02 93.5	22.42 190.11 142 78.04 102	17.98 192.17 148 78.82 100.2	51 1 90.23 1 47 84.55 71	08 00.75 00.82 00.86 00.61	02.2 01 01 01.07 60.78	02.8 00.99 00.99 01.07 00.71	03.2 01.08 01.07 01.19 00.78	10 12 13 14 16
53 199.6 189 151.57	30.4 109.5 54.5 76.23	36.7 160.6 78.9 86.79 38	60.42 99.81 93.64 1 00.95	01.13 00.5 00.43 00.89	02 00.91 01.77 01.25	01.65 (0.62 01.19 01.16 02	01.61 00.63 01.32 01.18 02	17 18 19 20 21
150.90 187.96 5.58 108	19.34 77.66 6 94.29 5.82	47.79 117.21 5.58 95.72 5.82	55.82 86.44 5.53 82 14.72	00.76 00.88 00.97 00.73	02.04 01.21 11.90 00.87 02.52	01.16 00.73 00.99 00.85 02.52	71.17 00.83 00 98 00.52 02.76	24 25 26 27 30
35.25 334.8 13	82.54 142.6 9 7 25.46	34.57 178.9 5 7 25.46	38 95.5 26 55 53	01.02 00.47 01.6	01.30 00.58 04.8 07.8 02.06	01.09 00.54 05.2 07.8 02.06	01.04 00.58 07.4 03.46	31 33 42 44 44
27 106 426	33.4 26.61 53.28 129	33.4 26.61 56.58 199	60 55.9 50 49.60 1 29	02.5 02 00.64 00.51	01.8 02.1 02 00.90 00.76	01.8 02.1 02 00.87 00.63	01.6 02.2 01.7 00.81 00.61	41 40 42 43
284 6 92.1 33.98	8.26 205 12.44 31.8 38.22	8.26 218 12.31 83.4 87.18	59.22 1 39 40 87.4 71.74	00.53 07 01.44 02.28	07.16 00.74 03 02.71 01.82	07.16 00.64 03 02.61 01.92	08.20 0 .62 02.54 01.92	61 61 61 61
45 115 33.10	21.90 41 21.03	22.21 22 51.6 26.58 194.3	44.20 1 28 78.83 74 183.98	03.21 00.90 01.9	01.95 06 01.76 03.8	01.99 06 01.49 02.8 00.68	02.32 04 01.54 03.4 00.69	70 71 71 71
10		10	24.6	02.4		02.4	02.4	1
20.50 10	14.8	20.48 10	27 21.8	01.8	02.3	01.3		
226.9	115.89	153.86	\$1 20.7			10 00,784		

14.-TONNAGE AND COMMODITIES MOVED.-ENTIRE SYSTEMS.

Road No.	Reilroads.	Agricultural products. Tons.	Animal products. Tons.	Products of mines. Tons.
1 2 3	Ann Arbor. Arcadia & Betsey River Au Sable & Northwestern	149,895 10	15,125	316,866
5 8	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	524 80,158	99 22,224	44,176
9 10 12	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul	470,198 3,862	499,383 1,201	160,778 29,808
13 14	Chicago & Northwestern Chicago & West Michigan	2,896,598	1,011,601 20,079	6,210,141 155,401
16 17 18 19 20	Cincinnati, Jackson & Mackinaw	15,610 4,148,818 207,309	21,930 2,980 547,212 28,762 24,580	298,405 39,815 2,411,468 79,223 78,308
23 24 25 26 27	Detroit & Mackinac Duluth South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System	6,128 126,141 495,533 4,273 278,650	5,709 15,885 31,048 338 20,568	4,502 1,419,894 175,505 731,576 241,892
30 81 33 42 43	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings	2,045,192	81 906 890,011 1,178 974	882,486 19,855 6,676,014 87,262 1,035
44 45 46 48	Manistee & Grand Rapids	280 6,523 350	20 1,408	581 6,490
50 65 66 67	Michigan Air Line Railway Michigan Central System Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiac, Oxford & Northern	1.493.899	3,554 664,355 2,707 26,414 209	27,479 1,599,477 54,087 480,060 1,701
68 70 73 77 78 79	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	18,449 1,190 4,074 34,715 4,278	4,197 2,434 241 43 3,053 338 660,764	12,364 46,177 1,891 9,068 781,576 1,702,646
-	ORE AND FUREST ROADS.	-,,		_,,,_,,
2 4 5 6 7 8	Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	533		1,429,591 299,836
	Total	15,493,891	4,531,066	26,863,511

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COMMISSIONER OF RAILROADS.

14.-TONNAGE AND COMMODITIES MOVED.-CONCLUDED.

Forest products. Tons.	Manufac- tures. Tons.	Mer- chandise. Tons.	Other com- modities. Tons.	Total tonnage.	Total tonnage previous year.	Freight originating on this road. Tons.	Road No
288,459 187	115,249 58	36,800	46,609	969,068 255	976,143	382,931 255	-
140,000 36,089 22,897	205 14,813	40 17,587	· 60 63,297	140,000 37,025 267,147	59,375 39,382 882,390	140,000 86,499 174,886	
103,905 4,169	81,006 8,828	181,586 7,155	241,649 10,758	1 899 405	1,550,202 45,261	432,871 21,831	1
1,878,073 517,582	1,611,281 105,841	1,044,025 118,118	1,125,923 61,920	60,774 11,959,795 15,772,642 1,174,727	45,261 11,351,945 16,215,091 1,205,263	21,831 11,959,795 13,544,398 869,807	1 1
86,237 66,763 878,227 58,690 228,792	86,535 6,373 1,140,672 32,790 52,890	21,280 8,059 937,397 68,086 37,890	34,033 5,529 200,013 53,834 28,050	655,959 145,129 10,263,807 528,694 580,275	612,684 159,669 8,848,275 507,045 595,750	226,713 122,826 148,818 216,313 410,795	
393, 131 524, 626 418, 539 6, 967 807, 297	18,809 52,557 126,993 2,023 224,630	658 67,985 162,441 819 13,852	4,900 131,809 195,819 704 24,487	483,836 2,838,397 1,605,878 746,700 1,605,871	435,107 2,131,288 1,359,710 1,492,582	488,896 2,089,626 1,040,356 846,533	
25,280 27,611 699,312 5,750 2,920	4,580 10,142 2,208,218 3,881 284	7,665 6,689 502,548 5,960 , 2,612	196,252 8,695 641,112	1,118,980 124,012 18,662,407 72,139 13,543	1,062,782 101,849 12,114,256	1,118,980 31,061 4,213,629 28,830 8,022	
63,312 233,987 184,623 22,221 83,375	19 6,389 45 18,056	36 1,827 4,272 200 35,621	77 2,569 	64,275 259,183 188,895 22,876 213,906	60,110 231,609 106,656 50,000 297,595	60,494 249,777 188,895 22,876 148,617	
1,405,712 7,212 661,923 68,655 16,816	1,475,225 9,726 78,343 5,602 4,688	20,118 71,379 867 9,954	697,869 13,491 29,488	7,276,470 124,025 2,115,657 78,642 86,092	6,175,215 125,615 1,975,543 77,900	8,492,349 124,025 1,624,196 59,559 61,879	
19,919 13,164 1,580 16,287 6,967 404,488	638 625 6,938 2,023 371,231	1,221 1,289 2,786 819 408,215	7,412 704 721,896	95,264 19,466 8,275 80,209 746,700 5,879,674	131,977 60,936 8,211 92,195 666,062 5,541,780	90,875 11,503 5,556 66,836 719,133 5,879,674	
81,147 24,920 202 11,213 50,000 555,543	5,017	18 1,400	561	81,147 1,460,622 299,556 11,213 51,400 555,543	21,789 1,870,592 108,014 454,788	31,147 1,559,622 291,015 11,213 50,000 555,548	
11,049,209	7,883,717	8,758,678	4,591,096	85,629,499	68,219,786	52,905,215	-

15.-EQUIPMENT.

Road No.	Railroads.	Retimated value.	Locomo- tives, ail classes.	Passenger cars, all classes.	Baggage, mail and express cars.
1 2 8 5 8	Ann Arbor	\$600,071 97 13,607 07 7,400 00	48 1 21 2	23 2 1	5
9 10 12 13 14	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan	1,284,650 00 80,500 00 16,282,650 00 1,041,550 00	130 4 844 1,010 77	80 2 413 580 46	19 2 287 150 27
16 17 18 19 20	Cincinnati, Jackson & Mackinaw	426,700 00 94,570 00 6,936,600 00 458,700 00 573,050 00	34 6 459 29 47	28 12 270 34 51	6 2 97 11 18
23 24 25 27 80	Detroit & Mackinac Daluth, South Shore & Atlantic Fint & Pere Marquette Grand Rapids & Indiana System Hancock & Calumet	285,690 00 1,858,900 00 1,481,620 00 1,453,800 00 159,500 00	20 94 103 68 8	9 37 93 69 4	6 12 24 22
83 42 43 44 45	Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary	10,175,138 00 15,000 00 9,000 00 50,251 40 144,959 02	548 11 2 2 8	327 6 1	96 3
46 47 48 49 50	Manistique Manistique & Northwestern Manistique & Northwestern Mason & Oceana	69,877 66 11,050 00 50,000 00 8,700 00 8,420,537 00	8 2 7 461	1 1 262	1 110
64 65 66 67 68	Midland & Northern	1,000 00 129,400 00 3,055,075 32 91,500 00 118,845 55	1 8 104 3 6	8 45 1 7	1 2 23
69 73 74 77 78 79	Saginaw, Tuscola & Huron South Haven & Eastern St. Clair Tunnel Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	99,750 00 12,900 00 14,800 00 89,640 00 277,525 00 4,112,000 00	10 8 4 6 7 418	13 7 2 2 217	3 1 4 110
-	ORB AND FOREST ROADS.				
1 2 4 5 6 7 8	Bear Lake & Bastern. Crawford & Manistee River. Heela & Torch Lake Lake Superior & Ishpeming. Lewiston & Southeastern. Manistee & Luther. Quincy & Torch Lake	80,215 72 9,150 00 209,510 00 280,930 31 4,275 00 69,775 00 84,050 00	3 1 11 11 2 6 3	1	
	Total	\$60,541,414 02	4,647	2,610	1,049

15.—EQUIPMENT.—CONCLUDED

Box	Stock	Platform and	Ore and	Con- ductor's	All other	Total	Number of locomo- tives	Cars equip power	ped with brakes.	
freight cars.	cars.	cars.	coal cars.	Cars.	kinds of cars	cars.	equipped with train brake.	Passenger.	Freight.	Road No.
1,337		404 15		26	14 84	1,809 50	42	23	727	1 2
8	8	12			313 83	340 35	21 1	1		1 2 3 5 8
148 2 19,014 20,269 1,759	2,503 2,881 2,881	145 10 5,384 6,895 1,034	310 4,851	68 1 491 546 81	10 15 152 239 45	430 82 28,554 35,911 2,967	190 4 760 998 74	49 4 768 894 73	16 1 9,800 24,195 846	9 10 12 13 14
1,044 30 8,648 362 514	18 638 25 43	231 65 1,660 196 686	111	14 2 211 21 28	3 1 382 51 12	1,453 112 13,101 700 1,852	34 6 437 29 47	31 14 367 45 69	3,894 24 13	16 17 18 19 20
95 1,143 1,729 1,852 16	44 49	381 580 1,153 1,363 99	1,823 69 166	5 30 46 52 8	252 20 476 39 1	748 3,145 3,565 3,015 289	20 71 63 63 7	14 49 117 92 4	160 6 9 6 580	23 24 25 27 30
11,813	759	2,247	4,994	284	442	20,464 9 6	548 1	425 9 1	12,480	83 42 43 44 45
4 8		90 275		2 5	1	96 296	<u>2</u>	7	96 1	44
1 1		95 30 60	175	3 5	40 33	140 63 250	8	1		46 47
18 8 ,295	1,039	8,103	834	253	191	13,587	396	872	5,025	47 48 49 50
4,430 46	101	2 69 705 145 61	150	2 78 2 1	12 31 185 50	15 198 5,662 193 120	8 103 3 6	9 68 1 8	471 125	64 65 66 67 68
25 11		95 13		3 9	50 1	189 33 9	10 2 4 6	16 4		69 78
80 469 6,165	1,085	52 110 5,189		2 2 225	4 83	140 587 18,024	6 5 402	6 2 327	10 2,117	69 78 74 77 78 79
4	30	53 84 45 20 30 10 8	380 400 50	8 4 1	14 2 4 9 1 231 2	68 36 467 433 31 245 60	ii		420	1 2 4 5 6 7 8
88,429	9,212	32,865	14,008	2,451	3,428	154,032	4,818	3,879	61,147	

16.-STATIONS AND EMPLOYÉS.

No.		Stat	tions.	Emp	loyés.
Road 1	Railroad s.	Total.	In Michigan.	Total.	In Michigan.
1 2 3 5 8	Ann Arbor Arcadia & Betsey River Au Nable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	68 13 22 6 12	64 13 22 6 12	869 25 153 24 327	747 25 153 24 327
9 10 12 13 14	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago Milwaukse & St. Paul Chicago & Northwestern Chicago & West Michigan	74 12 895 746 108	46 12 24 46 101	2,914 52 20,216 20,745 1,474	1,947 52 121 1,389 1,419
16 17 18 19 20	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	93 21 521 44 80	37 21 8 44 80	817 124 9,432 1,253 1,146	290 124 84 1,242 1,142
23 24 25 26 27	Detroit & Mackinac Duluth, South Shore & Atlantic. Flint & Pere Marquette Gogebic & Montreal River (Op d by Wis. Cent.) Grand Rapids & Indiana System	53 52 139 2 159	53 43 138 2 122	331 1,572 2,070 28 2,265	331 1,445 2,065 28 1,971
80 81 83 42 43	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings.	6 10 340 16 3	6 6 124 1 8	91 61 13,893	91 54 1,745
44 45 46 48 49	Manistee & Grand Rapids	2 21 4 6 20	2 21 4 6 20	38 179 90 80 154	38 179 30 80 154
50 64 65 66 67	Michigan Central System Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising	506 2 5 115 8	325 2 5 18 3	9,495 3 103 2,082 . 46	6,204 3 108 423 46
68 69 70 78 74	Pontiac, Ozford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System South Haven & Eastern St. Clair Tunnel	22 17 13 9	22 17 13 9	100 97 55 44 55	100- 97 55 44 19
75 77 78 79	St. Joseph Valley Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	26 9 466	26 3 16	16 123 95 7,678	16 123 25- 383
1 2 4 5 6 8	ORE AND FOREST EOADS. Bear Lake & Eastern Crawford & Manistee River Heela & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Quincy & Torch Lake	5 2 3 2 2	52 32 22	11 18 88 85 39 37	11 18 88 81 39 57
	Totals	4,759	1,564	100,598	25,136

16.—STATIONS AND EMPLOYÉS.—Concluded.

Baggage- men.	Brake- men.	Con- ductors.	Engineers.	Firemen.	Laborers.	Shopmen.	Yardmen.	Others.	Road No.
6 1 1 9	57 1 11 2 20	28 1 11 2 14	*46 1 15 2 25	46 1 15 2 25	203 17 85 10 56	214 1 7 2	8 1 88	255 8 2 140	1 2 3 5
36 1 8 403 12	225 1 5 1,474 70	100 2 4 799 41	134 2 4 1,177 66	134 2 4 1,305 67	830 21 75 5,036 509	4,868 82	92 2 3 785 47	789 21 23 5,398 625	9 10 12 13 14
. 12 . 1 . 80 24 . 9	51 5 514 50 59	26 2 265 26 27	33 6 437 43 45	33 7 437 47 47	245 37 2,450 444 447	186 5 1,625 152 86	5 8 629 36 32	226 53 2,995 431 394	16 17 18 19 20
5 22 22 2 2 24	82 82 121 2 131	14 41 65 2 62	17 62 92 2 92	17 63 97 10 98	188 504 836 2 520	61 179 211 4 306	2 51 78 4 148	50 568 555 889	28 24 25 26 27
2 196	12 4 702	6 3 351	7 4 607	6 4 637	25 14 2,726	2,019	4 5 978	23 10 5,677	30 81 33 42 43
2 1 3	4 11 6 5	2 7 8 1	2 7 8 4	2 7 8 4	20 41 1 13 70	. 18 . 10 . 2	2 2 1 1	2 89 1	44 45 46 48 49
77	570 5 83 6	307 1 3 13 3	494 1 5 23 8	516 1 5	2,818 12 100 15	882 24 32 2	696 2 19	3,635 45 203 14	50 64 65 66 67
2 2 1 1	4 4 1 10	3 4 8 2 5	8 5 3 2 6	3 5 8 1 6	32 81 19 24 5	17 18	1	36 28 22 9 23	68 69 70 73 74
2 1 12	1 7 8 36	1 4 4 24	1 4 5 20	1 5 5 20	6 51 44 139	6 21 26	1	43	75 77 78 78 79
	1 18 1 1 2	1 6 5	2 1 6 5 1 2	2 1 6 5 1 2	4 13 30 30 30 35 20	1 1 4 5	8 15 1 3	10 20	1 2 4 5 6
987	4,382	2,806	8,582	8,711	18,302	11,221	3,756	28,874	

17.—PERMANENT WAY.

		1	Bridge s	tractu	res.
<u>.</u>	Railroads.	W	ooden.	Stor	e or iron.
Road No.		No.	Length, feet.	No.	Length, feet.
1 2 3 5 8	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	8 4 2 2	116 800 98	30	2,064
9 10 12 13 14	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan	38 8 8 88 7	1,430 586 2,690 686	22 2 13 22	2,025 190 1,867 2,803
16 17 18 19 20	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	1 1 7	144 299 458	1 8 25 26	59 92 8,152 2,707
23 24 25 28 27	Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal River (Op'd by Wis. Cent) Grand Rapids & Indiana System	4 80 10 5 8	764 2,174 628 1,487 615	8 29 2 21	1,558 539 3,728 227 1,878
30 31 32 33 42	Hancock & Calumet. Indiana & Lake Michigan (Op'd by Terre Haute & I.) Iron Range & Huron Bay Lake Shore & Michigan Southern System Lima Northern	16 23 16	2,291 5,228 1,968	3 68	562 4,124
43 44 45 46 48	Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary Manistique Mason & Oceana	10 1 14 2 8	670 105 600 225 450		
49 50 64 65 66	Michigan Air Line Railway Michigan Central System Midland & Northern Mineral Range Mineral Range Minneapolis, St Paul & Sault Ste. Marie	1 7 5 13	80 372 1,725 2,449	871	141 11,362
67 68 69 72 73	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern	8 27 12	456 1,370 576 750	1 1	77 1,900
75 77 78 79 81	St. Joseph Valley Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash The Fort Street Union Depot Co.	33	375 326	1 1	885 184
1 4 5 7 8	ORE AND FOREST ECADS. Bear Lake & Eastern Hecla & Torch Lake Lake Superior & Ishpeming Manister & Luther Quincy & Torch Lake	3 8 8	96 1,893 150		
	Total	385	35,120	666	41,911

17.-PERMANENT WAY.-CONCLUDED.

	sings.	oad cros	Railre			108.	ructu	Bridge at			
Ģ.	Total.	Over or under.	At grade.	Total.		w bridges.	Dra	restles.	Т	bination.	Con
Road No.	No.	No.	No.	Length, feet.	No.	Length, feet.	No.	Length, feet.	No.	Length, feet.	No.
1 2 3 5	12	1	11 1	6,366	91			3,813	55	343	3
8	1 1		î	4,600	10			3,800	8		
8	7		7	98 915	2 7	123	1				
		1	11	8,357	64			1,332	42		
10 12 18 14	12 3 5 25 18		8	1,430	38						
12	25 25	1 8 1	8 4 17	1,430 13,306 32,347 24,712	140 358 203			12,53) 27,089 19,732	130 303	701	4
14	18	ĭ	12		203	803	6	19,732	164	688	4
16	9	3	6 9	16,193 4,540 1,878	179	360	8	15,990	177	281	
18	2	2		1,878	39 31			3,508 1,878	30 31	201	2
16 17 18 19 20	9 9 2 13	1	12 9	5,903 8,384	64 107	135	2	2,616 5,219	87 74		
	_		_					•	l		
28 24 25 26 27	3 84	10	3 24	5,866 42,425	39 270	220 32	1 1	2,852 39,680	25 231	477	1
25	34 35 7	3 4 1	24 32 3	5,959 1,8-5	52	669	4			939 150	9 2 7
27	24	i	23	14,120	177			11,052	141	1,075	7
30	3	1 1	2	4,031	24		<u> </u>	1,178	5		
30 81 82 33 42	1	1		1,905 5,228 15,843 434	24 23 23			1,905	28		
33	42	2	40	15,843	154	307	2	9,448 434	68		
	1		1	434	1			434	1	•••••	
43 44 45 48	2	i	2 8	670 236	10 4			75	i	56	<u>:</u> -
45	2 4 6		6	760	15	160	ī				
46 48	1		1	525 450	3					300	1
	6		6	4,587	62			1 200	59		
49 50 64 65 66	56	8	48	43,793	986	1,093	7	4,366 30,066	600	900	1
64 65	2 3 9		48 2 3 8	2,067	<u>i</u> ō-	180	i	162			
66	9	1	š	16,459	102			14,010	89		
67	1	1		8,009	18		 	2,553	5		
67 68 69 72 73	8	1	8	1,370 688	18 27 14	35	i				
72				1,900 750	1 8						
	2		2				•••••				
75 77 78 79 81			7	1,529 7,212	11 74			1,529 6,837	11 70		
78				688	7			6,837 303 4,768 3,520	16		
79 81	8.		8	5,656 8,520	120 1	184	1	4,768 3,520	84 1	194	1
-				0,020	_			-,	-		
				862				766	۰		
4	2	1 1	<u>i</u>	1.500	6 5 17			1,500	5		
1 4 5 7 8	2 3 3 2		2 3	7,609 210	17			2,412 60	3 5 2 1 9	3,304	7
Š	ž	1	ĭ	1,517	9			1,517	9		
→	395	55	340	828,772	3,621	4,301	31	238,000	2,495	9,408	

18.-PERMANENT WAYS.

!			Renewal of
Road No.	Railroads.	With stone or iron pipe.	With sewer pipe.
1 2 8 9 12	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern. Chicago, & Grand Trunk Chicago, Milwaukee & St. Paul		
13 14 16 18 19	Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee	4	1 28 4 5 5
20 28 24 25 26	Detroit, Lansing & Northern System. Detroit & Mackinac. Duluth, South Shore & Atlantic Fiint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis. Cent.)	i-	
27 31 83 44 49	Grand Bapids & Indiana System Indiana & Lake Mich. (Op'd by Terra Haute & I.) Lake Shore & Michigan Southern System Manistee & Grand Rapids. Michigan Air Line Bailway.	46	5 1
50 67 69 77 79	Michigan Central System Munising Saginaw, Tuscola & Huron Toledo, Saginaw & Muskegon. Wabash	16	
	ORB AND FOREST BOADS.		
1 5 6 7 8	Bear Lake & Eastern Lake Superior & Ishpeming Lewiston & Southeastera Manistee & Luther Quincy & Torch Lake		
	Total	283	108

18.-PERMANENT WAYS.-CONCLUDED.

timber culv	rerts.			New 1	brid ges.			
With	Total	Wo	oden.	Iron o	or stone.		Total	
timber.	number renewed.	Number.	Length, linear feet.	Number.	Length, linear feet.	Total.	length, linear feet.	Boad No.
			50	13	721	13	721	1 2 3 9 12
12	24					1	50	8
6	18	8	227	2	471.5	5	698.5	12
28	31 27 5	87 9	2,773 604	1	70	87 10	2,778 674	13 14 16
40 2	115 14			1	110	1	110	16 18 19
-	13	0	66	_	10	4	76	1
		8 2	820	1 6	1,117	8	1,487	23
5	6 66	12	628	4 2	474 227	16 2	1,102 227	20 23 24 25 25
9	80	7	456			7	456	27
35	1 81			14	982	14	982	27 31 33
·····i	10	1	75	i	71	1 1	75 71	44
20	84	2 2	1,655 168	8	826	5 2	1,981 168	1.
11 2	16 11 10	<u>1</u>	10.5			1	10.5	50: 67 69- 77 79:
		1	66 1,893	1	3,804	1 2	66 5,197	1: 5 6. 7. 8.
171	562	82	8,991.5	49	7,888.5	181	16,875	

18.- TAXES PAYABLE JULY 1, 1897.

	Railroads.	Miles of road in Michigan upon which taxes are based,	Gross earnings as reported for Michigan.	Gross earnings per mile of road operated in Michigan.	Per cent of taxation on taxable income,	Total taxes assessed for Michigan.	Taxee per mile of road operated in Michigan.
Ann Arbor Z Arcadia & 3 Au Sable d Bay City H Boyne City 6 Buchanan	Ann Arbor Arcadia & Botsay River At readia & Botsay River Bay City Belt Line Bay City Belt Line Boyne City Sontheastern Bubusania & Subsective & Subsection & Sub	286.73 17.50 108 8.00	81,028,167 27 6,022 84 59,385 09 19,205 35	\$8,458 26 344 16 549 86 1,200 33	22.21	\$22,686 88 120 45 1,187 70	183 6 83 10 10 10
	10 70 12	59.37 224 44.20	2,166,355,26 52,110 51	3,934 20 9,671 23 1,178 97	2.0.0 28	5,315 16 64,254 21 1,042 21	25 25 25 25 27 25
	hieses a Ramingoo ferring hieses, Milwankee & St. Faul Janunun Division of Chieses, Milwankee & St. Paul	105.03 47.05 521.19	177,958 81 60,906 91 2,083,694 60	1,694 36 1,294 51 4,017 14	2 2 2 23		
14 Chicago & 15 Chicago & Chicago & Chicago March 17 Chicamat Chicamat 18 Cleveland 19 Detroit, Grand Grand 21 Grand	Chicago & West Michigan Chicago & North Michigan Chicago & North Michigan Chichmati, Jackson & Mackinaw Chichmati, Saginaw & Mackinaw Lieveland, Chichmati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Ortoot, Grand Haven & Milwaukee Grand Ravide, Lancine & Detroit	55.04 3.05 3.05 3.05 3.05 3.05 3.05 3.05 3.05	1,411,688 01 122,753 12 820,681 03 128,555 35 131,064 72 977,820 97 1,189,643 32	2,128 2,128 3,1431 8,173 8,173 8,173 8,173 8,64 8,64 8,64 8,64 8,64 8,64 8,64 8,64	222222 22222 22222 24222 24222	20,752 G5 2,475 G6 2,401 G2 2,925 21 25,171 40	######################################
De	9	193.70	247,145 17		2	4,912 90	25 52
	Defroit & Mackinae. Dulatto, South Shore & Atlantic Flint & Pere Marquette Horgebic & Montreal River (Opt by Wis. Cent.) Grand Rapids & Indiana System Muskegon, Grand Rapids & Indiana.	2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	1,741,171 49 2,116,828 40 46,704 80 1,609,573 88 121,620 51	2,24,4 2,24,7 4,2,4,2 3,0,4,2	23.23.23 23.43.23 24.43.23	28,778 98 45,288 16 1,004 62 86,863 91 1,474 00	28.58.58 6.88.58 6.88.58 6.98.68
		8283 848	44,550 58 178,088 43 43,288 48		25 25 25 25 25 25 25 25 25 25 25 25 25 2		
	Iron Rapige at Hirrin Bay Lake Shore & Michigan Southern System Detroit, & Chicago Detroit, Hillsdale & Stutwestern Detroit, Monroe & Toledo	188 27.68 85.28 24.29		5,634 00 651 37 557 71 9,5 3 18	40000 84 %		
PE	Fort Wayne & Jackson Kalamazoo, Aligan & Grand Rapids Kalamazoo & White Pigeon. Northern Central Michigan Sturgis, Gosben & St. Louis Lima Northern Lowell & Hastlings	58.42 58.42 36.57 10.22 6.4 12.50	2,521 85 13,256 60 92,366 14 17,132 06 2,321 85 11,139 51	2,22,28 2,230,28 2,53,28 1,23,53 2,43,53 2,43,53 1,43,	802.20822 00.008222222222222222222222222	2,747 19 1,748 45 1,748 45 100 04 46 42 722 72	28 28 4 38 11 1 4 9 2 3 2 4 13 11 11 11 11 11 11 11 11 11 11 11 11

88	7 75 670 01 10 48 7 99			281 282 28 28 28 38 38 18	1,696 83 15 18 404 49	19 74 114 46 889 06 2,286 68	8 21 15 37 478 07	14 11 16 31 12 23	\$95 13
2,834.26	2,970 70 148,070 68 354 48 143 99		24,653 91 24,653 91 24,653 91	17 73 3,181 74 17,529 44 2,393 85 2,230 92	710 68 555 72 4,550 57	1,894 93 9,214 43 2,802 47 8,153 73	147 90 158 75 3,442 10	1,027 84 1,027 84 673 40	\$742,074 63
3 81	2 2 2 3	20000000000000000000000000000000000000	M	නන්න ක න සින්	8 8	8222 8323 8323	22 28	88	2.28
2,838 01 3,871 81 1,961 57	1,403 69 19,250 53 224 38 399 99			78 69 6,220 43 3,826 65 1,408 81 1,98 92 1,682 98	51,853 33 759 18 108,623 7,	808 80 1,068 03 4,320 58 83,562 63 89,467 54		3,946 35 183 43 8 5 74 4,741 14	\$8 ,693 30
155,889 77 15,485 26 116,713 28	14,346 81 148,441 11 4,254,267 16 17,724 27 7,199 85	58888 888 888 888 888 888 888 888 888 8		886 99 120,735 56 780,869 85 83,902 24 119,692 53 111,546 81	18,667 20 27,786 08 116,576 75	94,746 91 34,113 22 887,647 87 112,099 19 126,149 22	882	20,900 25 21,384 70 28,446 85	\$29,209,114 48
28 28 28 28 29 29	221.65 221.65 83.80 18	83.25 4.82 20.73 20.73	73.48.10 74.38.10 74.	10.40 17.40 199.23 25.49 100.59 66.57	38.60 1.125	828 838 838	118 10 7.20	82.22 & S	7,800.365
Manistee & Northeastern Manistee & Northeastern Supplementary Manistique	Mannetigne & Northwestern Mason & Oceana Michigan Air Line Railway Michigan I entral System Battle Creek & Sturgis By City & Battle Greek	Canada Southern Bridge Detroit & Bay City Derroit, Delray & Daarborn Canada Briever Valley Lackson Lacaine & Sacrinaw	H 1255	I & Sa Puron Loni	tapids (included in D , L. & N). gs Co. rn	Toledo, Saginaw & Muskegon Wi-consin & Michigan Wa bash Detroit Union R. R. Depot & Station Co. The Fort Street Union Depot Co.	River , S. S.	Lake Soperior & Ishpeming. Leviston & Southeastern. Manisten & Luther. Quincy & Torch Lake.	Total

b Not operated.

c Special charter.

18B.—COMPARATIVE, TABLE SHOWING TAXES, FOR, SIX YEARS, 1891 TO 1896, INCLUSIVE.

Railroads.	1891.	1892.	1883.	1894.	1895,	1896.
Ann Arbor Arbor Arbor Arbor Ar Sable & Northwestern. Chiengo, Detroit & C. G. T. Junction Chicago & Grand Trunk.	\$1,611 47 6,144 27 80,935 68	\$4,313 63 7,594 35 83,039 06	\$2,830 41 7,042 29 83,885 99	\$970 83 6,380 78 55,422 90	\$21,884 45 19 20 1,045 72 6,849 89 55,181 01	\$22,686 88 120 45 1,187 70 5,315 16
Chicago, Kalamazoo & Saginaw Chicago, Milwankee & St. Paul Chicago & West Michigan. Chicago & North Michigan.	1,032 54 81,304 94 36,328 80	1,050 81 101,243 07 40,748 90	1,070 28 8,822 34 53,577 34 36,105 89	8999 39 3,911 04 35,659 87 20,520 30	986 15 8,804 41 54,200 99 31,509 45	1,042 21 8,559 17 47,175 18 80,752 06 2,475 06
Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cincinnati, Saginaw & Mackinaw Cincinnati, Chicago & St. Louis Detroit, Grand Universe & Miwatkee Detroit, Lansing & Northern System.	7,266 74 4,088 28 25,171 40 28,115 69	7,087 11 4,874 48 1,459 37 25,171 40 28,402 51	6,624 87 3,613 55 2,299 54 25,171 40 26,790 13	6,327 08 2,641 59 2,296 28 25,171 40 24,130 58	6,330 90 2,863 32 8,010 43 25,171 40 25,401 17	6,401 62 2,981 88 2,985 21 28,171 40
Detroit & Mackinac. Duluth, South Shore & Atlantio Filint & Pers Marquette. Gogebbe & Montreal Riv. (Op'd by Wis. Cent.) Grand Rapids & Indiana System.	39,006 40 55,596 86 475 08 51,762 40	40,957 95 76,754 33 1,443 54 54,786 07	40.991 87 50,575 96 683 23 44,992 56	33,416 70 44,102 11 833 84 37,086 06	5,204 11 36,024 89 45,609 40 1,154 35 41,088 17	4,942 90 38,778 98 45,298 16 1,004 62 86,863 91
Muskegon, Grand Rapids & Indiana Traverse City. Hancock & Calumet. Iodians & Lake Mich. (Oo'd by Terre Haute & I.) Lake Shore & Michigan Southern System.	4,315 969 94 4,876 94 425 46 425 46	4,442 71 1,148 96 5,213 46 663 78 46,743 60	2,921 46 1,063 95 4,703 69 682 45 46,743 60	2,274, 73 85,032,89 7,18,86 46,743,60	2,541 49 879 73 4,789 79 834 83 46,743 60	1,474 00 891 01 4,400 03 865 76 46,743 60
Detroit & Chicago Detroit, Hillsdale & Sonthwestern Detroit, Monoe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids	723 90 836 81 16,203 26 2,056 50 3,258 44	778 51 898 74 18,341 69 2,227 68 3,642 96	896 55 844 16 15,078 00 1,666 18 3,170 85	908 80 F05 11 11,087 36 1,499 81 2,765 54	834 25 799 22 16,068 60 1,780 42 2,917 17	731 GB 727 252 15,337 823 1,697 635 2,747 19
Kalamazoo & White Pigoon Northern Ceutral Michigan Sturgat, Gostan & St. Louis Lima Northern Lowell & Hastings	2,443 35 1,850 80 122 25 211 10	2,527 45 1,981 18 120 70 244 86	2,193 26 1,926 63 86 58 252 30	1,918 55 1,889 01 71 63	2,038 40 2,076 96 104 57	1,948 45 1,743 41 100 04 46 42 22 22 22
Manistee & Grand Rapids Manistee & Northeastern and Supplementary. Manistique and Magon & Oceana. Magon & Oceana. Michigan Air Line Railway.	2,300 82 2,608 57 808 91 3,086 21	2,544 38 1,715 53 764 79 3,862 48	685 90 3,751 62 1,488 38 398 38	834 73 2,869 05 1,250 04 492 99 3,915 83	756 75 8,842 26 2,244 56 878 92 8,509 67	700 99 3,992 24 2,834 28 2,86 88 2,910 70

146,070 68 854 48 184 39 115,087 19 6,110 20 25,585 30 1,277 36	149 39 485 01 24,658 31 17 73 8,181 74	17,529 44 2,863 85 2,230 92 710 68	555 72 4,550 57 1,894 98	9,214 43 2,803 47 3,158 78	147 90 153 75 3,442 10 183 48 1,027 84 673 40	\$742,074 63
146,515 01 387 38 157 41 14,581 64 16,005 28 28,676 65 1,142 66	161 50 775 40 24, 150 54 29 37 2,811 58	18,165 98 2,204 32 2,288 42 1,681 15 674 19	392 85 4,033 87 1,899 38	11, 100 72 3, 739 61 8, 086 8 6	146 10 117 53 2,629 74 1,496 12 611 48	\$741,408 77
130,152 92 371 30 154 44 154 45 16,079 40 6,166 47 28,717 05 1,996 89	137 91 635 68 19,867 96 63 57 2,812 59	10,448 87 2,825 18 2,871 98 1,718 82 667 82	425 38 4,225 65 1,920 27	9,220 77 4,138 29 3,174 65	126 25 155 77 2,659 41 2,062 27 543 48	\$676,136 18
134,083 20 400 28 28 17 17,286 28 17,286 28 18,25,609 17,500 18,500 17,5	146 86 1,037 48 22,231 05 2,785 22	16,872 10 2,568 88 2,514 58 1,862 85 907 59	464 99 4,877 09 36 16 2,160 57	11,866 55 4,088 60 2,860 21	156 80 174 70 187 84 1,428 24 547 57	\$811,056 65
134,088 20 419 23 186 78 20,006 83 20,006 83 14,834 00 36,530 73 1,348 63 5,348 63	175 35 1,566 05 23,064 42 3,497 34	13,384 19 2,563 52 2,475 49 1,900 56	518 58 3,479 77 31 89 2,521 30	. 11,638 88 3,523 89	224 76 118 99 3,092 47 2,280 40 424 57	\$683,762 01
134,068 20 386 36 166 34 24 57 20,641 93 14,884 00 33,277 81 1,460 00 5,460 01	2,156 34 20,588 61 4,160 19	11,418 52 2,145 56 2,135 63 1,838 89	540 76 543 20 92 58 2,301 50	13,847 26 3,130 17	281 19 263 68 3,267 11 2,254 85 385 22	\$854,394 12
Michigan Central System. Bastic Creek & Strugts Bay City & Battle Creek. Canada Southern Bridge. Detroit & Bay City Ortroit, Delrey & Dearborn. Grand River Valley Jeckson, Lasting & Saginow. Michigan Air Line K B.	Michigan Midland & Canada. Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit. Midland & Northern Mineral Range.	Minneapolie, St. Paul & Sault Ste. Marie Pontiac, Oxford & Northern. Sagituaw, Tuccola & Huron. Sagituaw, Valley & St. Louit System Sault Ste. Marie Bridge Co	South Haven & Eastern. St. Clair Found. St. Closeth Valley. Toledo, Saginaw & Muskegon.	Wisconsin & Michigan Wabash Defroit Union R. R. Depot & Station Co. The Fort St. Union Depot Co. ORR AND FOREST ROADS.	Bear Lake & Eastern. Unwfood & Manistee River. Heela & Torch Lake Lewi ton & Southeastern. Manistee & Luther. Quincy & Torch Lake.	Total

19.—TOTAL INCOME AND EXPENSES, MICHIGAN, 1896.

Net earnings per mile of road.	\$170 26	680 889 86 1,932 66	2,176 65 552 64 171 68 86 95	542 52 392 82 374 88 99 47	403 24 1,075 38 250 14 250 24	672 31 2,100 20 4,492 59	221 22 851 22 720 68 84 68	1,405 69 2,088 00	2,782 88 1,086 66 602 11 866 11
Percentage of expenses to earnings.	101.08	110.8g 83.08 62.08	88.08 86.08 86.08	85.45 92.41 84.69 86.03	70.19 66.80 75 91.25	88.42 62.95 111 67.97	96 77.17 61.8 63.8	100 93 75.19	25.27 10.91 50.88 67.88
Proportion of expenses for Michigan.	\$1,160,027 36 3,043 28 70,884 48 11,558 59	288,821 90 2,013,748 65 34,436 56 191,921 94	2,199,114 44 1,243,091 68 288,340 38 124,247 06	112,000 49 903,577 41 785,774 40 204,805 77	281,102 23 1,106,574 90 1,587,719 23 42,617 79	1,522,891 47 112,009 99 47,376 27 1,876,888 37	10,664 49 25,154 79 124,856 83 73,844 58	14,346 81 141,052 92 6,151,934 64 1,820 48	59,822 96 556,218 41 18,260 42 81,181 21
Proportion of income for Michigan.	\$1,026,167 27 6,022 84 59,385 09 19,205 83	236,354,75 2,166,355,28 52,110,51 791,374,18	2,093,694,60 1,535,451 13 320,081 03 128,855 35	131,064 72 977,820 97 930,060 00 237,996 51	400,622 86 1,741,171 49 2,245,385 99 46,704 80	1,775,098 17 178,088 43 43,288 48 2,048,382 24	11,139 51 85,049 89 201,375 08 116,713 28	14,346 81 148,535 11 7,508,203 64 886 99	120,735 56 780,869 85 85,902 24 119,662 53
Railroads.	1 Ann Arbor 2 Arcadia & Betsey Birer 3 Arcadia & Bostes Mirer 5 Boyne City & Southeastern 5	8 Chicago, Detroit & C. G. T. Junotion 9 Chicago & Grand Trunk 10 Chicago & Saginav 11 Chicago, Milwankee & St. Paul	13 Chicago & Northwestern 14 Chicago & West Michigan 16 Chicago & West Michigan 17 Chicago & Mackinaw 18 Chicanati, Jackson & Mackinaw	18 Cleveland, Cincinnati, Chicago & St. Louis. 19 Detroit, Grand Haven & Milwaukee. 20 Detroit, Lansing & Northern System { 3 months	22 Detroit & Mackinae. 23 Uninth, South Shore & Atlantic. 24 Uninth, South Shore & Atlantic. 25 Flint & Pere Marquette. 26 Gogebic & Montreal River (Operated by Wisconsin Central)	27 Grand Bapids & Indiana System 38 Hancock & Calumet 1 Indiana & Lake Michigan (Operated by Terre Haute & Indiana) 28 Lake Shore & Michigan Southern System.	43 Lowell & Hastings 44 Manistee & Grand Repids 55 Manistee & Northeastern and Supplementary 56 Manistique	48 Maron & Oceana 49 Michigan Air Line Railway Michigan Central System 64 Midland & Northern	65 Mineral Range 66 Minneapolis, St. Paul & Sault Sto. Marie 66 Minneapolis, St. Paul & Sault Sto. Marie 68 Pontiac, Oxford & Northern

82.71 287 47 77.67 106 87 18.06 63,142 25 139.78	78 817 60 80.01 1,233 84	75.78 98.89 100 89.42 2,380.78	820.30	82 \$669 48
91,566 44 16,765 05 12,585 80 82,748 46 45,541 71 132,446 88	3 383	5,573 58 7,610 27 104,062 72 31,889 30	7,448 63 86,916 42 28,446 85	\$24,378,492 98
111,546 31 21,584 81 18,667 20 27,785 08 116,576 75 94,746 91	347,808 67 112,099 19 126,149 22	7,385 28 7,6-7 52 104,652 72 80,900 25	2,384 70 51,392 13 28,446 85	\$29,577,535 27
	77 Toledo, Saginaw & Muskegon. 18 Wisconsin & Michigan. 19 Wabash. 20 Detroit Union B. R. Depot & Station Co	Dear Lake & Eastern. 1 Bear Lake & Eastern. 2 Chrawford & Manister Eigen. 4 Hoola & Torch Lake. 5 Lake Superior & Isbperning.	6 Lewiston & Southeastern. 7 Manistre & Luther. 8 Quincy & Torch Lake	Total

Z

20.-TRAFFIC BARNINGS.-FOR MICHIGAN.

No.				:	Passonger
Road N	Railroads.	Passenger fares.	Express and beggage.	Mail.	Other sources.
1 2	Ann Arbor	I 5∩ 68	\$20,210 68	\$38,295 72	
3 5 8	Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	5.395 35	10,834 73	1,742 76 307 24 9,749 60	
9 10 11 12 13	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul, Channing Div. Chicago & Northwestern	481,932 07 17,578 64 88,778 40 7,753 13 213,044 11	82,875 98 870 42 9,294 17 4,149 78 46,188 68	47,981 76 1,923 60 9,589 38 2,220 96 45,108 56	\$266 40 429 86 2 57
14 16 17 18 19	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee	500,084 17 77,379 35 34,653 21 38,123 23	96,335 76 15,662 57 1,869 87 2,031 08 27,762 71	62,840 08 11,431 41 4,166 33 2,929 42 30,227 33	3,573 10
20 23 24 25 26	Detroit, Lansing & Northern System Detroit & Mackinac. Duluth, South Shore & Atlantic Flint & Pere Marquette. Gogebic & Montreal Riv. (Op'd by Wis. Cent.).	465,792 04 75,412 61 428,225 11 593,269 07 4,240 60	23,580 00 1,749 22 35,137 29 51,639 82 597 71	51,874 54 13,339 22 43,513 67 66,926 15 816 29	18,138 43
27 30 31 33 42	Grand Rapids & Indiana System	526,749 25 11,809 90 12,093 79 597,784 85 181 10	40,829 05 833 89 566 78 109,292 63 800 00	46,366 16 669 01 1,690 36 299,920 36	13,041 63
43 44 45 48 48	Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary Manistique Masson & Oceana	2,854 00 1,042 42 88,476 79 9,244 99 1,652 51	86 68 1,202 95	4 4 1 8 94	161 00
49 50 64 65 66	Michigan Air Line Railway Michigan Central System Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie	30,493 91 2,148,718 16 31,132 19 116,270 48	2,499 96 235,870 33 1,658 02 7,769 50	8,338 00 255,617 88 1,380 59 24,966 69	
67 68 69 70	Munising. Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System.		328 85 2,171 22 727 14 420 00	569 31 7.663 04	12 00
72 78 74 77	Sault Ste. Marie Bridge Co. South Haven & Eastern. St. Clair Tunnel. Toledo, Saginaw & Muskegon	13.623 84	1,228 01		87 80
78 79 80 81	Wisconsin & Michigan		1	688 50 7,273 09	
01	ORE AND FOREST ROADS.				
1 2 4 5 6 7 8	Bear Lake & Eastern Crawford & Manistee River Heela & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	24 70 197 00			
	Total			\$1,121,939 83	

20.-TRAFFIC EARNINGS.-CONCLUDED.

department.	Frei	ght departs	nent.	Total	Operating receipts	Total receipts	<u>.</u>
Total.	Freight.	Other sources.	Total.	traffic earnings.	other than traffic earnings.	from operation.	Road No.
\$282,960 42 50 68 7,138 11 829 39 143,283 71	\$707,608 21 · 5,972 16 52,246 98 18,018 01 90,230 20	. \$357 95	\$707,608 21 5,972 16 52,246 98 18,375 96 90,230 20	\$990,568 63 6,022 84 59,385 09 19,203 35 233,513 91	\$35,598 64	\$1,026,167 27 6,022 84 59,385 09 19,205 35 233,513 91	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
562,789 81 20,639 06 58,093 81 14,126 44 304,291 35	1,601,859 65 31,225 04 119,865 00 46,780 47 1,778,113 15	246 41	1,601,859 65 81,471 45 119,865 00 46,780 47 1,778,118 15	2,164,649 46 52,110 51 177,958 81 60,906 91 2,082,401 50	11,290 10	2,164,649 46 52,110 51 177,938 81 60,906 91 2,093,694 60	10 11 12 18
598,780 01 104,473 33 40,689 41 38,083 73 426,729 60	927,745 19 211,983 54 87,688 21 92,680 59 495,078 35	7,728 46	935,468 63 211,985 54 87,688 21 92,680 99 495,078 35	1,534,248 66 316,458 87 128,377 62 130,764 72 921,807 95	1,292 49 3,622 16 477 73 300 00 56,013 02	1,535,541 15 320,081 03 128,855 35 131,064 72 977,820 97	14 16 17 18
540,746 58 90,501 05 506,876 07 729,973 47 5,154 60	610,676 72 307,946 96 1,190,148 84 1,386,852 9 1 41,359 95	4,619 60	610,676 72 307,946 96 1,144,768 44 1,386,852 93 41,508 90	1,151,423 30 398,448 01 1,701,644 51 2,116,826 40 46,663 50	14,361 66 2,174 85 7,124 78 41 80	1,165,784 96 400,622 86 1,708,769 29 2,116,826 40 46,704 30	20 23 20 23 24 25
626,986 09 12,812 80 14,350 93 1,006,997 34 481 10	1,124,111 24 164,818 13 28,937 55 1,024,076 19 1,840 25	4,834 90 17,308 71	1,128,946 14 164,818 13 28,937 55 1,041,384 90 1,840 25	1,755,932 23 177,630 93 43,288 48 2,048,382 24 2,321 35	19,165 94 457 50	1,775,098 17 178,088 43 43,288 48 2,048,382 24 2,321 35	27 80 81 33 42
3,649 02 1,042 42 44,098 08 10,993 15 2,908 71	7,490 49 33,832 63 156,191 32 105,565 13 11,438 10		7,490 49 33,832 63 156,191 32 105,565 13 11,488 10	11,139 51 34,575 05 200,289 40 116,563 28 14,346 81	174 84 1,085 63 150 00	11,139 51 35,049 89 201,375 03 116,713 28 14,846 81	43 44 43 46 48
41,331 87 2,340,206 37 34,120 80 155,291 43	106,109 24 4,827,500 25 886 99 78,455 02 611,765 57	551 92 2,166 90	106,109 24 4,827,500 25 886 99 74,006 94 613,932 47	147,441 11 7,467,706 62 886 99 108,127 74 769,222 90	1,000 00 40,502 02 107 82 4,169 89	148,411 11 7,508,208 64 886 99 108,235 56 773,393 79	49 50 64 65 66
34,334 46 44,249 30 41,732 90 12,914 88	81,449 58 75,287 28 68,350 63 8,604 36		81,449 53 75,287 23 68,350 63 8,604 36	35,783 99 119,536 53 110,083 53 21,519 24	118 25 156 00 619 96 65 57	35,902 24 119,692 53 110,703 49 21,584 81	67 68 69 70
16,731 99 21,818 00 26,572 54	10,572 35 94,758 25 61,549 00		10,572 35 94,758 25 61,549 00	18,667 20 27,304 34 116,576 25 88,121 54	481 74 50 6,625 37	18,667 20 27,786 08 116,576 75 94,746 91	72 78 74 77
4,579 77 102,651 76	26,169 76 234,288 02	3,363 69 10,866 89	29,533 45 245,154 91	34,113 22 347,806 67 112,099 19 126,149 22		34,113 22 347,806 67 112,099 19 126,149 22	78 79 80 81
24 70 197 00	7,370 58 7,687 52 101,422 98 80,900 25 2,384 70 51,193 13 28,446 85		7,370 58 7,687 52 101,422 98 80,900 70 51,195 13 28,446 85	7,395 28 7,687 52 101,422 98 80,900 25 2,384 70 51,392 13 28,446 85		7,395 28 7,687 52 101,422 93 80,900 25 2,384 70 51,392 13 28,446 85	1 2 4 5 6 7
\$9,847.198 04	\$18,972,536 79	\$52,189 38	\$19,024,726 17	\$28,628,934 82	1207,178 26	\$28,83 6 ,113 1 08	

21.-TRAIN MILEAGE AND TRAFFIC.-FOR MICHIGAN..

		
Road No.	Railroads.	Passenger trains, miles.
1 8 5 8	Ann Arbor Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	27,800
10 13 13 14 16	Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paul. Chicago & Northwestern. Chicago & West Michigan. Cincinnati, Jackson & Mackinaw.	57,084 55,795 404,684 746,902 210,668
17 18 19 20 28	Cincinnati, Saginaw & Mackinaw. Cleveland, Cincinnati, Chicago & St. Louis. Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern System. Detroit & Mackinac.	441.535
24 25 26 27 30	Duluth, South Shore & Atlantic. Flint & Pere Marquette. Gogebie & Montreal River (Op'd by Wis Cent.) Grand Rapids & Indiana System Hancock & Calumet.	1,020,704 19,098 774,560
31 83 42 43 44	Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System. Lima Northern Lowell & Hastings Manistee & Grand Rapids	37,776 931,781 9,600
45 46 48 49 50	Manistee & Northeastern and Supplementary 'Manistique Mason & Oceana Mason & Oceana Michigan Air Line Railway Michigan Central System	17.000
65 66 67 68 69	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron	65,198
70 78 77 78 79	Saginaw Valley & St. Louis System. South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	56,434 21,407
	ORE AND FOREST ROADS.	
2 4 5 6 8	Crawford & Manistee River. Hedla & Toroh Lake. Lake Superior & Ishpeming. Lewiston & Southeastern. Quincy & Toroh Lake	
	Total	10,971,176

21.-TRAIN MILEAGE AND TRAFFIC.-CONOLUDED.

Freight trains, miles.	Total for trains earning revenue.	Through passengers, number.	Local passengers, number.	Total passengers, number.	Passengers carried 1 mile, number.	Road No.
490,045 100,360	904,807	158 8,976	808,548	303,701	10,359,119	1
109,360 18,780	187,160 25,830 291,776		1,740 180,268	8,976 1,740	12,180	5
67,059 1,375,784	291,776 2,177,515	41,232 68,606	180,268 291,778	221,500 360,384	5,160,109 29,892,423	1 3 5 8 9
	84,894 217,722	2,970	38,225	41,193	684,179	10
115,305 1,133,958	217,722 1,632,832	4,472 1,010	178,801 278,095	183,273	6,569,173	10 12 13 14 16
706,901	1,453,803	4,728	716,635	279,105 721,363	7,288,805 24,391,481	1 12
181,805	444,010	7,578	143,648	151,226	3,989,196	16
40,466 60,758	109,048 122,368	7,169 8,600	57,053 66,978	64,222 75,578	1,569,335 1,696,904	17 18 19 20 23
287,252	910,803	3,025	547,933	550,958	16,016,931	19
490,600	1,147,308	19,609	646,273	665,832	22,161,889	20
200,210	401,600	•••••••		73,207	3,278,209	23
654,838	1,304,593	45,540	303,087	348,627	15,250,419	24
1,122,794 16,899	2,231,782 85,992	28,404 18,523	948,904 15,047	977,308 83,570	28,086,440 144,139	20
642,880 157,161	1,501,513 183,359	50,089	775,722	825,811	27,911,401	24 25 26 27 30
157,161	183,359		60,619	60,619	373,286	30
21,217	58,993	1,896	18,851	20,747	512,207	31 33 42 43
800,293 544	1,732,024 14,844	17,708 49	918,414 522	936,122 571	25,906,574 8,352	1 49
	20,000		15,900	15,900	111,300	43
21,477	21,477		1,903	1,903	45,676	44
87,111	198,469	8,163	66,467	74,630	1,730,876	45 46 48 49 50
39,580 13,000	64,180 30,000	••••	11,500 4,131	11,500 4,131	230,000 70,227	46
52,939	195,298	21	80,415	80,436	1,138,479	49
3,172,995	6,138,865	220,474	1,880,400	2,100,874	90,541,682	1
58,574 267,255	98,544	24,979	125,625 50,270	125,625 75,249	1,217,721	65 66 67
8.914	529,830 12,790	24,010	11.552	11,552	5,146,948 86,806	67
38,242	164,735	499	11,552 61,251 55,850	61,750	1,369,609	68 69
42,777	130,143	6,034		61,884	1,653,173	
6,968	23,384 61,220	230	21,756	21,956	417,987	70
176	147,243	349	33,062 31,231	33,062 31,580	462,868 726,387	78
22,659	44,068	1,037	13,089	14,126	183,638	77 78
228,210	419,422			130,828	5,708,428	79
40.000						
10,600 54,000	10,600 54,000					2 4 5
54,000 13,150	13,150					5
3,900	3,400					6
15,636	15,636					
12,833,072	25,521,028	602,128	8,956,538	9,762,701	841,602,026	

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22.—TRAFFIC

19,466 8,275 80,105 63,448 235,187	31,147 1,459,622 299,556 11,213 51,400 555,548	31,603,568
19,208 8,275 88,526 41,348 235,187	1,459,622 202 51,400	22,837,562
258 11,511 24,100	229, 354 11, 218 555, 548	8,766,006
4 2888 4 2888	90 08	\$0 02.28
6180 6161 27 208		\$0 02.36
2.72 2.73 2.73 2.73 2.83 2.84 2.73		\$0 01.79
52.08 23.14 27.14 91.30	8	\$ 0 59.75
22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	S	25.74
70 Saginaw Valley & St. Louis System 78 South Haven & Eastern 77 Tolefo, Saginaw & Miskegon 79 Wiscousin & Michigan. 79 Wabash ORB AND FORBET BOADS.	Crawford & Manistee River. Heeln & Torch Lake Lake Superior & Ishpeming. Lake Superior & Suthaster. Manistee & Lother. Manistee & Lother. Quincy & Torch Lake.	Total

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28.—TRAFFIC FOR MICHIGAN.

			Mileage.	
Road No.	Railroads.	Through freight.	Local freight.	Total tons moved one mile.
1 5 8 9 10	Ann Arbor Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	36,397,968 3,682 2,094,337 231,796,154 673,781	69,544,002 547,485 5,213,687 58,263,360 419,467	105,941,970 551,167 7,805,024 290,059,514 1,093,248
12 13 14 16 17	Chicago, Milwaukee & St. Paul. Chicago & Northwestern. Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw.	18,571,494 141,086 2,405,145 5,748,571 2,127,102	43,887,172 201,300,665 84,559,160 24,000,243 3,192,675	57,458,666 204,441,751 87,004,305 29,748,814 5,319,777
18 19 20 23 24	Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Bystem Detroit & Mackinac Duluth, South Shore & Atlantic	13.032.699	4,402,347 23,588,871 39,687,556 16,485,768 32,914,024	14,900,481 41,696,949 52,720,255 16,485,768 97,190,732
25 26 27 30 31	Flint & Pere Marquette Gogebic & Montreal Riv. (Op'd by Wis. Cent.) Grand Rapids & Indiana System Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.)	108,119,561 4,159,292 18,883,852 2,089,680	79,885,831 7,036 126,666,181 6,517,866 645,346	188,005,392 4,166,348 145,550,033 6,517,866 2,735,026
38 42 43 44 45	Lake Shore & Michigan Souther® System Lima Northern Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary	11,728,271	128,365,431 29,643 20,000 21,477 8,116,218	140,093,702 29,648 94,801 1,636,984 8,552,560
46 48 49 50 65	Manistique Mason & Oceana Michigan Air Line Railway Michigan Central System. Mineral Range	1,417,750 421,703,050	5,026,585 297,888 10,685,277 247,517,340 1,024,921	5,026,585 297,388 12,103,027 669,220,390 1,024,921
66 67 68 69 70	Minneapolis, St. Paul & Sault Ste. Marie	59,050,702 9,816 216,602	29,866,889 958,576 2,663,520 2,744,075 420,755	88,917,591 968,392 2,8*0,122 3,542,285 432,363
73 74 77 78 79	South Haven & Eastern. St. Clair Tunnel. Toledo, Saginaw & Muskegon. Wisconsin & Michigan. Wabash		182,050 2,812,158 389,085 45,699,103	182,050 4,183,712 758,056 45,699,103
2 4 5 6 8	ORE AND FOREST ROADS. Crawford & Manistee River	6,133,769	2,988 112,130 3,335,258	6,136,757 112,130 3,335,258
	Total	1,039,014,229	1,315,039,629	2,354,073,858

COMMISSIONER OF RAILROADS.

23.—TRAFFIC FOR MICHIGAN.—CONCLUDED.

		ites.	Re			Ton haul.	
Road No.	Per ton per mile, all.	Per ton per mile local.	Per ton per mile through.	Average amount for each ton haul.	All miles.	Local miles.	Through miles.
2 }	\$0 00.67 8 1.12 .55 2.8	\$0 00.88 8 1.19 .91 2.2	\$0 00.26 3 1.38 .46	\$0 72.94 49 83.78 108.42 51	109.2 14.9 27.36 19.63 17.98	82.2 15 22.63 13.81 22.42	292.8 7 57 21.96 16.01
	.99 .87 1 .71 1.65	1 .87 1 .74	.75 1.17 .81 .61 1.18	190.23 42.54 79.54 71 60.42	192.17 49 74.14 100.2 36.7	190.11 49 73.41 102 80.4	199.18 29 111.98 95.5 53
5 1 5 2 2	.62 1.19 1.16 2 1.22	2.12	.05 .43 .89	18.36 93.64 100.95 71 52.87	29.5 78.9 86.80 38 42.77	28.1 54.5 76.23 38 18.41	33.4 189 151.57
7 2 3 3 5 8	.78 .99 .77 2.53 1.06	1.21 11.9 .79 2.53 1.26	.88 .97 .65	86.35 5.54 82 14.73 37	117.07 5.58 106.29 5.82 34.57	77.55 6 106.21 5.82 32.54	187.79 5.58 106.81 85.25
3 4 4 4	.73 2.2 7.8 2.06 1.8	.75 3.1 7.8 2.06 1.8	.52 1.2 2.06 2.5	48 18 55 53 60	58.8 8 7 25.46 33.4	56.5 10 7 25.46 33.4	101.9 13
4 4 4 2 5 7	2.1 2 .88 .72 7.17	2.1 2 .91 .85 7.17	2.1 2 .85 .64	55.9 50 49.60 84 59.22	26.61 56.58 117 8.26	26.61 58.28 86 8.26	, 106 148
1 6 8 6	.69 8 2.61 1.98 1.99	.75 8 2.71 1.82 1.96	.65 7 1.44 2.28 3.22	47 40 87.4 71.74 44.2	69 12.31 33.4 37.18 22.21	48 12.44 31.8 38.23 21.9	92.1 33.99 45
7	6 1.49 3.4 .69	1.76 4.2	.9i 2.3	78.83 40 183.98	51.6 11.58 194.3	41 9.41	115 15.31
	- 2.4 .7 1.8 21.8	2.3	2.4 1.8 21.3	24.6 27 21.8	20.48	14.8	20.5 10
	\$0 00.808		.85	60.2	74.48	57.58	118.58

24.—TONNAGE AND COMMODITIES MOVED, MICHIGAN.

Road No.	Railroads.	Agricultural products. Tons.	Animal products. Tons.	Products of mines. Tons.
1 2 8	Ann Arbor. Arcadia & Betsey River. Au Sable & Northwestern.	149,895 10	15,125	316,866
5	Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	524 80,153	99 22,224	44,176
9 10 12	Chicago & Grand Trunk. Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul.	389,032 3,862 1,250	491,014 1,201 1,150	132,293 29,808 286,889
18 14	Chicago & Northwestern Chicago & West Michigan	14,282 186,235	2,144 19,080	8,459,396 106,712
16 17 18	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis	49,086 15,610 175,753 207,809 129,765	9,475 2,980 3,956	126,081 39,815 149,500
19 20	Detroit, Grand Haven & Milwaukee Detroit, Lausing & Northern System	129,765	28,762 24,580	149,500 79,223 78,308
23 24 25 26 27	Detroit & Mackinac. Duluth, South Shore & Atlantic. Flint & Pere Marquette Gogebic & Montreal River (Op'd by Wis. Cent.). Grand Rapids & Indiana System	6,128 122,885 495,533 4,273 235,123	5,709 15,260 31,048 338 25,231	4,502 1,419,577 175,505 781,576 128,413
80 81 83 42 43	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings	2,686 36,083 792,744	31 836 50,802 133 974	882,486 11,566 906,466 7,322 1,035
44 45 46 48	Manistee & Grand Rapids	280 6,523	20 1,408	531 6,430
49 50		1	3,554 556,152	27,479 1,267,389
61 65 66	Michigan Central System	16,684 487,244	2,707 13,598	54,087 410,523
67 68	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiac, Oxford & Northern	ì	209 4,197	1,701 12,364
69 70 78 77 78 79	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	4.07/4	2,434 241 43 3,053 183 26,430	46,177 1,891 684 9,068 150 68,067
	ORE AND FOREST ROADS.			
2 4 5 6	Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	583		1,429,591 299,886
8	Quincy & Torch Lake			
	· Total	5,030,284	1,366,341	12,752,936

COMMISSIONER OF RAILROADS.

24.-TONNAGE AND COMMODITIES MOVED.-CONCLUDED.

Forest products. Tons.	Manufac- tures. Tons.	Merchan- dise. Tons.	Other commodities. Tons.	Total tons.	Total tonnage previous years.	Freight originating on this road. Tons.	Road No.
288,459 187 140,000	115,249 58	36,800	46,669	969,063 255 140,000 37,025 287,147	976,143 59,375	882,981 255 140,000	1 2 3 5
36,089 22,897	205 14,813	40 17,587	65,297	37,025 287,147	39,382 882,390	86,499 174,836	8
87,224 4,169 282,500	59,336 3,828 1,586	118,511 7,155 4,214	205,077 10,756 3,044	1,477,487 60,774 580,638	1,847,407 45,261 456,676	384,393 21,881 524,691	10 12
508,990 511,296	11,499 97,750	7,155 4,214 11,993 112,224	3,044 18,550 52,120	580,638 4,021,854 1,085,867	5,078,089 1,105,1:0	524,691 3,997,266 862,295	18
39,036 66,768 118,549 58,690	39,173 6,873 28,577 32,790	9,634 8,059 24,841 68,088	24,405 5,529 1,717 53,834 28,050	296,890 145,129 504,898 528,694	304,502 159,669 522,501 507,043	102,627 122,826 111,852 216,813	16 17 18 19
58,690 228,792	52,890	68,086 37,890		580,275	595,750	216,813 410,795	20
393,131 479,536 418,539 6,967 777,572	18,808 51,252 126,993 2,023 149,787	65,555 162,441 819 10,628	4,900 118,425 195,819 704 22,682	433,836 2,272,490 1,605,878 746,700 1,849,8:6	435,107 2,062,285 1,528,694 919,555 1,426,669	483,836 1,984,021 1,040,356 719,138 817,249	28 24 25 26 27
25,2°0 16,427 299,342 841	4,580 7,425 425,972 1,855	7,665 4,789 71,478	196,252 1,994 136,827	1,118,980 79,1_0 2,683,631 9,959	1,089,002 74,098 2,497,496	1,118,980 19,830 553,278 2,065 8,022	30 81 83 42
2,920 63,312	284	2,612 36	829 77	18,543 64, 275	12,745 57,268		48
233,987 184,623 22,221	6,389	1,827 4,272 200 35,621	2,569	64 ,275 259 ,133 18 8,-95 22,876	57,268 342,807 188,191 30,000	60,494 249,777 188,895 22,876 148,617	45 48 48 49
33,375 1,263,965	18,056 1,172,175	35,621	35,399 282,443	213,906 5,739,643	271,068 6,479,996	2,641,783	50
7,212 283,797	9,726	20,118 84,332	18,491 15,283	124,025	8,500 107,387 968,606	124,025 886,621	64 65 66
68,655 16,316	59,329 5,602 4,683	867 9,954	944	1,284,056 78,642 86,092	79,874	59,559 61,879	68
19,919 13,164 1,580 16,287	638 625 6,938 2,062	1,221 1,269 2,736 5,816 16,329	8,285 1,121 7,412	95,264 19,466 8,275 80,209	114,642 68,842 7,876 82,878 66,957	90,875 11,503 5,556 66,886	69 70 78 77
16,287 98,977 16,179	2,062 14,849	5,816 16,329	1,926 28,878	80,209 119,195 235,187	66,957 242,056	69,617 235,187	78 78
31,147 24,920 202	5,017	18	561	31,147 1,460,622 299,556 11,218 51,400	24,227 1,418,860	31,147 1,559,622 291,015 11,213	2 4 5
11,218 50,000 555,548		1,400		11,218 51,400 555,548	74,806 495,401	11,218 51,400 555,543	8
7,810,490	2,554,209	914,495	1,586,879	32,035,634	32,750,113	21,560,270	-

25.-PERMANENT WAY.

		Fenc	ing.
Road No.	Railroads.	Completed miles. Number.	Required miles. Number.
12858	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Boyne (lity & Houtheastern	557 19	20 22
8 9 10 12 13	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago, Kalamasoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern. Chicago & West Michigan	122.74 456 87 38 681.74	224 360.64
14 16 17 18 19 20	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing and Northern System	894 830.87 116 70.28 885 724.14	1.11
23 24 25 26 27	Detroit & Markinac. Duluth, South Shore & Atlantic Flut & Pere Marquetta. Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids and Indiana System.	180.5 443.74 724.5 53.7 387	486.62 56.5
30 31 33 42 43	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Hante & I.) Lake Shore & Michigan Southern System Lima Northern. Lowell & Hastings	22.80 45.05 1,143.88	39.58 5.05 10 3
44 45 46 48 49	Manistee & Grand Rapids	18 61.5 20 215	54.42 89 7
50 64 65 66	Michigan Central System. Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste, Marie	2,002.5 8 22 223	70 - 12 12.80 161
67 68 69 78	Munising Pontiac, Oxford & Northern Saginaw, Turc. la & Huron South Haven & Eastern		50.98 5.9 25
75 77 78 79	St. Joseph Valley Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	20 192 75.19	48
1	ORE AND FOREST ROADS. Bear Lake & Bastern. Crawford & Manistee River	17	19
24567	Crawford & Manistee River Hecla & Toroh Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	15	84
:8 	Quincy & Torch Lake	10,781.37	1,900.60

25.—PERMANENT WAY.

	Mainte	nance.		i		Renewals.			
laced work.	ons in Num-	length ns.	number to each	New rail Mich	ls laid iń igan.	Ties.—Nu	mber put in year.	during	
Trestles replaced with earth work.	Track sections in Michigan, Num- ber.	Average len of sections. Miles.	Average nt of men to section.	Tons.	Miles of track.	Entire line.	In Michi-gan.	Av'ge per mile in Mich.	Road No.
874	46	6.43	4.5	551.5 264	5.01 8	183,875 6,443	176,458 6,443	607 802.2	
	10 2 12	6 8 5	4		2	17,830	17,330	299	
150		5		10,132	96		153,842	435	1
276 517 49	45 7 20 85 108	6.5 8 6.13 5.2	5 3 3 4.5 8	19,242.16	156.19	204,459 5,000 2,021,806 1,556,597 339,278	5,000 46,500 221,878 325,721	113 810 809 581	1 1 1
1,473 41	27 8 5 87 72	6.4 6.72 7.08 5 5.5	8 4 4 4 8	348.36 4,404.17 1,327 1,258	35.04 12 11.28	112,318 83,121 731,459 117,235 196,130	37,370 83,121 7,927 117,235 196,130	329 389 398 454 518	1 1 1 1 2
3,586.5 28.3 398	82 90 117 3 97	9 5.16 7.87 9.81 4.6	4 4 4 2.87	58 3,297	.67 29.99	41,596 180,203 897,567 2,630 261,096	41,596 158,820 397,567 2,630 214,227	140 315 424.7 161 449	2 2 2 2 2
16 2,096	7 4 104 1 1	4.5 6 5.69 6.5 12.5	4 3 4 8 4	18,628	109.86	5,886 7,326 602,277 103,072 5,600	5,886 4,650 125,556 17,160 5,600	189 186 418 2,640 448	8 4
850	5 10 6 4 14	9 7 9.92 7	4 4 4			18,091 54,816 30,000 9,000 32,659	13,091 54,316 80,000 9,000 82,689	170 600 505 383 311	4444
825	253	4.66	4	3,500	26	646,085	451,042	400	:
	· 1 3 27	10 6 7.38	4	359.05	319	4,251 236,445	4,251 69,298	244 199	
120	3 16 11 6	8.47 6.26 6	5 2 3 4	105.5	1.5	35,238 39,543 13,629	85,238 39,583 13,629	352 595 368	000
	1 12 5 12	10 8 6 6.9	6 4 4 7.5			31,321 3,065	81,321 972 25,879	295 41 340	
370	1 1 3 3 1 4	18 10 6 7 10 15 6	4 6 5 5 6 10 8	2,400 24	20.5	6,000 54,120 10,169 7,000 746	54,120 10,109 7,00 746	600 2,640 1,010 111 124	
10,669.8	1,838	7.42	4.21	60,888.74	881.81	8,358,992	3,201,481	409.4	\vdash

28.—HIGHWAY CROSSINGS—NUMBER.

Road No.	Railroads.	At grade.	With gates or flagman.	With electric or automatic signals.	Number over.	Number under.	18 feet above tracks.	Less . than 18 feet above tracks.	Total.
~~~	Ann Arbor Areadia & Betsey River Au Sable & Northwestern Boyne City & Sontheastern.	<b>₹88</b> ∞	7	•	7	2	7		 
<b>ಹಿಕ್ಕಾ</b>	Chicago, Detroit & U. G. T. Junction Chicago & Grand Trunk Chicago, Kalmazoo & Saginaw Chicago, Milwankee & St. Paul	8323	88	13	63	63 K3	67		
2295	Chicago & Northwestern Chicago & Weet Michigan Ciocinnast, Jackson & Mackinaw Cincinnast, Saginaw & Mackinaw	8888	8841	1	성폭성	11.	여덟여	1	214 679 216 8
2282	Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Havon & Milwankee. Detroit, Lansing & Northern System.	85 123 188 188	23.88.8	-81	12 S	911	M 05 GP	10	275 275 525 188
ន្ទនេ	Dubuth, South Shore & Atlantic. Fint & Pere Marguette. Gogsbote & Montreal River (operated by Wisconsin Central. Grand Rapids & Indiana System.	184 862 55 50 50 50	88.3	∞4	8189	<b>⊕</b> ⊕∺N	64 to		195 874 6 6
8283	Hancock & Calumet. Indiana & Lake Michigan (operated by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern	27. 87.8 8	8	2	는 보유	7	- 4	1	28 885 885 8
3448	Lowell & Hastings. Manistee & Grand Rapids. Manistee & Northeastern and Supplementary. Manistique	±884		1					£288 *
<b>3</b> 4328	Mason & Oceana Michigan Air Liue Railway Michigan Central System Midhad & Northera	11 130 1,341 8 8	138	8	288	17	80 gg ==	6	11,394 1,394 8
<b>8288</b> 5	Minneapolis, St. Paul & Sau t Ste. Marie Munising Portisc, Orford & Northern Seginaw Tueola & Huron Saginaw Valley & St. Louis System	104	*			2			342

<b>8433</b>	St. Joseph Valley Toledo, Sagrinaw & Muskegon Wisconsin & Michigan Wabash	525 8 55	3	105 125 3 159 1 159		97	67		05 05 05 05 05 05 05 05 05 05 05 05 05 0
	ORE AND FOREST ROADS.								
484	Bear Lake & Bastern Crawford & Manistee River Hecia & Toroh Lake	<b>81</b> 888	2	2	218	3 3	1		Spen
70 e0 00	Lake Superior & Ishpeming Lowiston & Southeastern. Quincy & Torch Lake	<b>ಎ</b> ಐನ	1	88	89	<b>6</b> 0	oc.		17 6 2
	Totals	7,870	542	99	182	110	106	16	8,102

### 27.-ACCIDENTS.

				Mis	cellan	90US.
			ğ.	I	njured	l.
Road No.	Railroads	Others killed.	Employés killed.	Passengers.	Employés.	Others.
1 8 9 12 13	Ann Arbor. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago & Hwaukee & St. Paul. Chicago & Northwestern.		3		8 1 3 11	
14 16 17 18 19	Chicago & West Michigan				<u>i</u> -	
20 23 24 25 26	Detroit, Lansing & Northern System		4		10 	
27 30 31 33	Grand Rapids & Indiana System		1		11 1 	7
45 50 65 66	Manistee & Northeastern and Supplementary Michigan Central System Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie					
68 69 77 79	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Toledo, Saginaw & Muskegon Wabash	1			i	
	ORE AND FOREST EOADS.					
6	Lake Superior & Ishpeming				5 2	
	Total	2	15	8	185	12

### COMMISSIONER OF RAILROADS.

### 27.—ACCIDENTS.—CONCLUDED.

tructions.	pas	es- sers n ins.	PAS O	es- sers n ck.	i k	Fota rilled	l l.	1	Total njured	1.	. c	Tota asualt	il Lies.	d tramps.			Resp bilit acci	onsi- y for dent.	<b>8</b>	
Overhead obstructions. Employée injured.	Others killed.	Others injured.	Others killed.	Others injured.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	Trespassers and tramps.	Dranks.	Suicides.	Clearly accidental.	From neglig- ence or lack of caution.	Total accidents.	Boad No.
,	 1	2 1	1 3 3	2		22313	1 2 4	2	17 1 4 5 18	8 2 3 1 4	2	19 3 7 6 21	4 4 7 1 10	3 6 1 8	1		19 1 1	4 4 13 7 22	23 7 14 7 33	1 8 9 12 13
1	1	2 1 	1 2	2  2		 2	5 1 1 8	3	2 2 8 3	7 2 	 	2 2 8 5	12 3 1 5 3	9 1 3 2	1		2 1 10	15 2 1 8 8	17 5 1 18 8	14 16 17 18 19
	1 2	2 3	1 10		1	8 5 8	6 1 3 13	1	6 1 23 1 9	3 1	2  1	9 1 28 4 9	10 1 6 14	4 1 6 7	2 1	2	11 18 4 10	10 1 16 4	21 2 34 18 10	20- 28 24 25- 26
		3  8	2 1 5	1  1		2  1	6 1 8	6	26 5 1 9	13 1 	6	28 5 1 10	19 1 1 14	14 1	1		19 6	20 2	53 6 2 24	27 30 31 88
1	4	6 1	14	6 1 1	i	6	18	1	41 6 56	18 2 1	1 5 1	47 6 56	86 2 5	80 2	1		10 5	48 4	88 9 61	45 50- 65 66
	1	1	1 1			1	1 2		1 1 2	ī		2 1 1 2	1 1 3	1 1 2			1 1 3	1 1 1 2	2 2 5	68 69 77 79
									5 2			5 2					1 1	4	5 2	5 6
2	10	26	57	20	2	85	87	19	255	77	21	290	164	102	7	2	133	194	475	_

### ANNUAL REPORT OF THE

### 26.-ACCIDENTS.

<u>.</u>		C	ollisio	D.S.		pling	]	Derail-
Road number.	Railroads.	Employés killed.	Passengers injured.	Employ 6s injured.	Employés killed.	Employee injured.	Employés kifled.	Others
1 8 9 12 18 14 16 17 18 19	Ann Arbor Chicago, Detroit & C. G. T. Junction Chicago, & Grand Truuk Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Cinciunati, Jackson & Mackinaw Cinciunati, Saginaw & Mackinaw Cleveland, Cinciunati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee		1			1 2 8 1		
20 23 24 25 26	Detroit, Lansing & Northern System Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal River (op'd by Wisconsin Central)			3		7 1		
27 30 31 83 45	Grand Rapids & Indiana System Hancock & Calumet Indiana & Lake Michigan (op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Manistee & Northeastern and Supplementary					i		
50 66 68 77 79	Michigan Central System Minnespolis, St. Paul & Sault Ste. Marie Pontiac, Oxford & Northern Toledo, Saginaw & Muskegon Wabash					14 1 1		
	Totals.	8	1	9	3	60		·

### COMMISSIONER OF RAILROADS.

### 28.—ACCIDENTS.—CONCLUDED.

mente	ı <b>.</b>	1	Falling	from	train	<b>.</b>	Get	ting o	n and	off tre	ins.	Hie	hway	crossi	ngs.	يا
Passengers injared.	Employés injured.	Passengers killed.	Employés killed.	Others killed.	Passengers injured.	Employée injured.	Passengers killed.	Employés killed.	Others killed.	Passengers injured.	Others injured.	Others killed.	Passengers injured.	Employés injured.	Others injured.	Road number.
	1 i		1 1 1 1			2 i 2				1	1 1 1 1	2			8 1	1 8 9 12 13
	i		i			1 3				2	<u>2</u>	1 1				14 16 17 18 19
	i	1	1 1			8 1				1 i	3	2			2 1	20 23 24 25 26
5	2		1	1	1 i	2 1					1	3 1 3			1 2	27 80 31 83 45
	8	1	8 1 1		1	12 1		1		2 1		i			5	50 66 68 77 79
5	14	2	18	1	8	29		1		8	10	14			17	

### ANNUAL REPORT OF THE

### 28.-CLASSIFICATION OF EMPLOYÉS KILLED AND INJURED.

Road No.	Railroads.	Baggage- men.	Brakemen.	Conduc- tors.
1 8 9 .12 13	Ann Arbor. Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Milwankee & St. Paul Chicago & Northwestern Chicago & West Michigan.		5 8	2
16 18 19 20 28	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cleveland, Cincinnati. Chicago & St. Louis Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern System  Detroit & Mackinac		8	·····i
24 25 26 27 80	Duluth, South Shore & Atlantic. Flint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis. Cent.). Grand Rapids & Indiana System.	i	11 1 1 15	2 1
31 38 50 65	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Michigan Central System Mineral Range	1	25 25 2	i
66 68 69 77 79	Minneapolis, St. Paul & Sault Ste. Marie		1	
5	Lake Superior & Ishpeming. Lewiston & Southeastern			
	Total	14	101	12

### COMMISSIONER OF RAILROADS.

### 28.—CLASSIFICATION OF EMPLOYÉS KILLED AND INJURED.—CONCLUDED.

Engineers.	Firemen.	Laborers.	Shopmen.	Yardmen.	Unclassi- fied.	Total killed.	Total injured.	Total number.	Road No.
1 2	1 1 8	6 1 8	3	5 4	3 2	2 2 8 1 2	17 1 4 5 18	19 8 7 6 20	1 8 9 12 13
- 1 - 2	1	1			8	1 2 3	2 4 8 8 6	2 5 8 5 9	14 16 18 19 10
1	1	1 7 1 4 5		8 1 8 4	5	5 8 2	1 23 1 9 26	1 28 4 9 28	28 24 25 26 27
1		1 1		14	1 5 8	1 6	5 1 9 40 6	5 1 10 46 6	30 31 38 50 65
1	1	1	5	7	1	i	56 1 1 2	56 2 1 1 2	66 68 69 77 79
•••••	1	4			1		5 2	5 2	5 6
9	12	66	8	42	27	85	256	291	

### RAILROAD MILEAGE.

	1892. Miles.	2. 1893. 88. Miles.	3. 1894. es. Miles.		1895. Miles.	1896. Miles.
Road owned by companies doing business in Michigan Road operated by companies doing business in Michigan Road owned in Michigan Length of main track in Michigan Length of second and side track in Michigan Total, estimated as single track Increase over previous Years.		15, 133 59 17, 144 35 17, 147 37 17, 147 37 17, 147 37 17, 147 37 17, 148 59 173 68 172 14	20,089 40 27,581 89 1,571 84 1,572 84 1,511 88 1,511 84 1,511 84 1	20,004,72 23,010.81 7,512.50 7,562.08 2,217.65 9,730.15	22,501,45 24,847,52 7,609.87 7,610,43 7,600.87 2,877,128 9,887,15	22,708.52 23,045.14 7,739.08 7,78.72 7,789.08 2,189.07 150.41
	CAPITAL STOCK.					
	1892.	1893,	1894.	81	1895.	1896.
Total capital stock paid in Amount held in Michigan Total number of stockholders	\$372,761,847 00 \$12,974,408 28 16,627 1,038	\$431,973,001.97 \$12,162,362.59 21,2.3 1,076	\$431,380,117 19 \$11,358,388 31 23,255 1,144	<u> </u>	\$436,195,223 19 \$10,885,374 97 23,351 1,161	\$436,910,564.76 \$11,146,289.97 24,509
COST OF ROADS COMPARED WITH STOCK AND DEBT	RED WITH STO	OCK AND DE	ï.			
	1892.	1893.	1894.	18	1893,	1596.
Total eapital stock paid in  Total funded debt.  Total ub funded debt.  Total debt.  Total debt.  Total este for ead and equipment.  Total acts for ead and equipment.  (apital stock paid in per mile of road.  Stock and debt per mile of road.  Stock and debt per mile of road.	8872, 761, 847 00 458, 203, 945, 12 80, 642, 023 35 80, 642, 023 35 80, 807, 41 814, 807, 814, 47 826, 629, 11 826, 629, 11 82, 629, 11 82, 631, 42 82, 639, 11 82, 639, 12 83, 434, 20 857, 085, 62 857, 085, 62 857, 085, 62	8431,973,001 97 606,113,355 62 606,113,355 62 646,952,727 18 1,019,705,289 66 1,019,705,289 68 1,019,705,289 68 1,019,705,289 68 20,580 53 80,580 53 81,401 98 48,581 68	8431.380,117 606,885,287 608,886,287 652,186,827 1,084,787,188 1,084,787,188 310,082 31,048 31,048 51,585 81,648 81,648 81,648 81,648	8486.18 31. 8486.18 31. 841.115 865.88 865.88 866.88 1. 102.98 1. 031.46 1.	156, 238 19 150, 386 45 1711, 770 62 1711, 770 62 168, 103 80 19, 288, 34 27, 973 44 47, 288 78 45, 841 18	\$436,910,564 76 603,025,687 21 54,833,189 61 656,380,287 22 1,083,271,421 58 1,026,881,987 64 303,185,987 64 18,815 67 147,422 60 47,422 60

# COMPARATIVE TRAFFIC AND REVENUE.

, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	1892.	1883.	1894.	1895.	1896.
Passengers carried.  Passenger mileage.  Passenger revenue.  Form of freight hauled.  Freight mileage.  Freight revenue.  Oprating expenses.  Net a rankga.  Total iccome.  Total conditures.	40,885,146 83,294,214 873,644,20 874,420 874,420 874,420 874,420 874,420 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,383 876,3	53, 916, 571 46, 847, 816 851, 023, 624, 23 72, 645, 138 883, 009, 892, 42 116, 276, 893 116, 276, 893 116, 276, 893 116, 276, 893 117, 881, 881, 40 188, 089, 505, 31 9, 318, 356, 69	45, 712, 682 48, 386, 738 541, 319, 315, 88 74, 168, 422 63, 801, 227 93, 601, 237 93, 601, 237 133, 109, 745, 02 128, 708, 435, 40 6, 406, 309, 62	41, 243, 450 44, 526, 837 813, 779, 700 74 87, 875, 241 88, 618, 822 67, 285, 241 144, 454, 148 16 96, 622, 175 50 96, 622, 175 50 145, 699, 180 71 183, 046, 107 58	44, 788, 388 44, 586, 887 48, 685, 877 88, 788, 498 63, 474, 414 89, 625, 688 101, 683, 197 145, 604, 582 145, 804, 582 181, 281
PASSEN	PASSENGER MILEAGE.				
	1892.	1893.	1894.	1895.	1896.
Number of passengers carried. Average journey (miles). Average rate per mile. Total passenger mileage	40,355,149 32,51 \$0 02.18 1,311,956,019	53,916,571 43.25 \$0.01.87 2,381,976,030	45,712,652 32.85 \$0 02.20 1,501,614,565	47,213,450 84,05 10,02,18 1,606,584,611	44, 782, 385 34, 88 10, 02, 13 1, 562, 353, 996
FREIG	FREIGHT MILEAGE.				•
	1892.	1893.	1894.	1894.	1896.
Number of tons of freight hauled Average haul (miles) Average rate per ton per mile. Total freight mileage	75,642,091 140,78 \$0 00.72 10,648,956,703	79,649,152 158.22 80 00.76 12,203,926,890	74,148,422 146.82 \$0 00.82 10,886,537,782	83,618,852 149.16 80 00.79 12,472,334,620	82,788,489 183,86 10 00.78 12,740,422,706

### TRAIN MILEAGE

- TR	AIN MILE	AGE.			
	1892.	1893.	1894.	1895.	1896.
Passenger trains Freight trains Total, all trains	31,294,241 52,485,870 83,780,111	46,847,816 72,645,193 119,493,009	43,366,789 68,361,227 107,227,966	44,556,837 67,285,241 111,842,078	45,526,886 63,474,414 118,057,984
COMPARATIVE TABI	E OF EXP	enses to	EARNING	s.	
	1892.	1893.	1894.	1895.	1896.
Earnings per mile of road.  Operating expenses per mile of road.  Operating expenses, per cent of earnings.  Earnings per train mile.  Operating expenses per train mile.	\$7,444 96 6,079 22 92 \$1 34 1 24	\$7,836 59 6,004 81 90 \$1 23 1 15	\$6,758 89 5,636 63 96 \$1 26 1 20	\$6,472 89 5,354 50 91 \$1 30 1 18	\$6,413 30 6,402 23 99 \$1 28 1 26
RO	LLING ST	ock.			
	1892.	1893.	1894.	1895.	1896.
Total number of locomotives Total number of cars	3,841 · 131,709	4,781 163,407	4,827 155,625	4,664 153,388	4,647 154,058
EMPLO	YÉ3 AND S	stations.			
	1892.	1893.	1894.	1895.	1896.
Total number of employés Total number of stations.	82,931 8,877	100,963 4,642	89,586 4,629	88,325 4,695	100,598 4,759
PER	MANENT	Ways.			
	1892.	1898.	1894.	1895.	1896.
Trestles replaced with earthwork	10,167 432 5,648,245	15,407 619 5,781,277	19,438 445 4,784,269	20,557 408 6,656,840	10,669 562 8,358,992
CROS	BINGS, NT	IMBER.			
	1892.	1893.	1894.	1895.	1896.
Bailroad crossings at grade Railroad crossings over or under Railroad crossings, total Highway crossings at grade Highway crossings over or under Highway crossings, total Highway crossings with gates or signals	338 42 380 7,477 234 7,711 589	350 44 394 7,449 215 7,664 510	356 44 400 7,560 213 7,773 514	356 46 402 7,669 211 7,880 530	340 55 395 7,870 242 8,112 602

### COMPARATIVE TABLE OF EARNINGS.

Years.	Gross	Miles	Rarnings
	earnings.	of road.	per mile.
1887 1888 1889 1890 1891 1892 1883 1884 1894	80, 161, 504 31 34,001,787 15 36,165,108 96 36,292,598 86 38,683,208 94 38,432,718 97 29,522,975 71 29,211,014 48	5,768.41 6,411.66 6,759.55 6,957.27 7,274.94 7,447.37 7,511.83 7,512.50 7,606.61	\$5,285 66 4,704 16 5,030 18 5,198 17 5,062 81 5,194 21 4,850 08 3,929 84 3,839 20 3,831 97

### ACCIDENTS.

		Kil	led.			Inju	red.		ties.
Years.	Passengers.	Employés.	Others.	Total.	Parsengers.	Employés.	Others.	Total.	Total casualt
1887 1888 1899 1890	2 7 8 7 5	62 63 60 75 52	78 90 110 150 118	142 160 178 282 175	32 21 26 53 47	251 256 282 491 356	87 88 86 98 112	870 865 394 637 515	512 582 572 869 689
1892 1898 1894 1895	6 46 2 4 2	78 58 37 32 35	88 96 90 100 87	167 200 129 136 124	45 127 17 18 14	463 362 169 215 255	111 77 78 72 82	619 566 264 300 851	786 766 388 436 475

### COMPARATIVE TABLE OF EARNINGS AND EXPENSES.

State.	Gross earnings, year ending June 30, 1896.	Operating expenses.	Percentage of operating expenses compared with gross earnings.
Wisconsin	\$33,575,970 97	\$19,990,609 99	59.53
Illinois	78,158,750 00	49,524,677 05	63.11
Minnesota	39,398,128 00	20,544,124 00	52.14
Iowa	33,355,823 <b>63</b>	24,681,428 28	73.99
Ohio*	74,720,707 11	49,790,585 43	66.63
Michigan	29,577,585 27	24,878,492 98	82.42

^{*} Entire line.

TABULATED STATEMENT OF RAILHOAD ACCIDENTS IN MICHIGAN REPORTED TO THE COMMISSIONER OF RAILROADS DURING THE LAST TEN YEARS.

1	Suicides.	8-880	<b>200</b> 40
É	· .benntal	<b>3283</b> 55	<b>4224</b>
То trespassers.	Killed.	8281128	55882
To tre	Unlawfully on cars.	84823	28288
	Unlawfully on track.	28538	3825
ade ings	.berntal	22222	22225
At grade crossings.	Killed.	32228	~8223
	Total injured.	35 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Total killed.	88283	88383
	Overbead bridges.	F-14000-4	
, <b>ş</b>	.векиво тера скизев.	8828	ខ្លួននៃនិង
To employée.	Falling from trains.	32223	28883
P.	By train accident.	82223	<b>43</b> 77∞3
	Coupling cars.	17 3 5 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	312888 8
	To other employée.	22 12 25 25 15 15 15 15 15 15 15 15 15 15 15 15 15	888 82 82 83 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13
	To trainmen.	25555	28083 28083
d E	.berntal	82884	<b>3</b> 27 25 8 8 8
To pas-	Killed.	611-001-10	<b>&amp;</b> \$0.40
	Injuries not fatal.	28883 28883 28883	3888 3888 3888
mmary of accidente.	Fatal injuries.	23558E	2000 M
a aod	To trespassers.	858 85 15 15 15 15 15 15 15 15 15 15 15 15 15 15 1	<b>338</b> 35
mary	At grade crossings.	31331	<b>2000</b>
	То ешріоуба.	900 918 918 918 918 918 918 918 918 918 918	852822 852825
General su	To passengers.	<b>4848</b> 3	25322
	-ni to redmnn latoT snosreq of seirni	525 525 525 525 525 525 525 525 525 525	88884
	Years.	1887 1888 1880 1890	1692 1693 1894 1895 1896

### REPORTS OF RAILROAD COMPANIES

1896

### ANNUAL REPORT

OF THE

### ANN ARBOR RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed April 22, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WELLINGTON R. BURT, Toledo, Ohio. Vice President, GEO. W. QUINTARD, New York, N. Y. Secretary, DANIEL C. TATE, New York, N. Y. Auditor, F. GOSSMAN, Toledo, Ohio. Treasurer, DANIEL C. TATE, New York, N. Y. General Manager, HENRY W. ASHLEY, Toledo, Ohio. Superintendent, W. F. BRADLEY, Durand, Mich. Chief Engineer, G. A. NETTLETON, Toledo, Ohio. General Passenger Agent, W. H. BENNETT, Toledo, Ohio. General Freight Agent, W. H. BENNETT, Toledo, Ohio. Attorney, ALEX. L. SMITH, Toledo, Ohio.

### * DIRECTORS.

GEO. W. QUINTARD, New York, N. Y.
FRANKLIN B. LORD, New York, N. Y.
A. W. WRIGHT, Alma, Mich.
WM. C. McCLURE. Saginaw, Mich.
E. W. TOLLERTON, Toledo, Ohio.
Terms expire September, 1897.
AMOS F. ENO, New York, N. Y.
BOBERT D. MUREAY, New York, N. Y.
JOHN JACOB ASTOR, New York, N. Y.
BENJ. PERRINS, New York, N. Y.
WELLINGTON R. BURT, SAGINAW, Mich.
Terms expire September, 1898.
J. EDWARD SIMMONS, New York, N. Y.
H. W. ASHLEY, Toledo, Ohio.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Terms expire September, 1899.

R. C. MARTIN, New York, N. Y.

When chartered or articles of association filed: September 21, 1895.

Number of stockholders at date of last election: 740.

Number of stockholders in Michigan at same date: \$2.596.

Amount of full paid stock held in Michigan at same date: \$2.596.

Date of annual meeting of stockholders: Third Saturday of September, annually. Fiscal year of company ends June 30.

General offices of the company are located at Toledo, Ohio.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		
Net deficit	\$12,709 52	
Interest on unfunded debt	6,664 46	•
Balance for the year	\$19,373 98	
Balance (profit and loss) last year Items not included in above		\$4,448 55 8,612 71
Balance forward to next year	\$6,312 72	

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or	articles of	f associati	on		<b>\$7,250,000 00</b>
Par value of shares				\$100 00	
Number of shares issued  Amount paid in on common  Amount paid in on preferred			72,500	\$3,250,000	
					_
Total amount paid in as per b		_	-		• •
Paid in per mile of road owned by	company	, 298.80 mil	les		. 24,263 72
	ANALYSI	S OF DE	BT ACCOUNTS.		
		FUNDED :	DEBT.		
Class, character and date of	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage gold, July 1, 1895		45	1995	New York	\$7,000,000 00
	τ	NFUNDED	DEBT.		
For what incurred.	Is th	he same to	be funded or ho	w liquidated.	Amount.
For current balances			• • • • • • • • • • • • • • • • • • • •		\$331,826 03
	B	ECAPITUL	ATION.		
Total funded debt					\$7,000,000 00 331,826 08
Total debt liabilities				•	\$7,331,826 08
Amount of debt liabilities per mil- lotal amount of stock and debt Stock and debt per mile of road, 2	e of road, 98.80 miles	298.80 mil	98		24,587 55 14,581,826 03 48,801 30
G	ENERAL	BALANC	E SHEETDR.		
Construction account				\$13,408,238 45 933,633 90	3
Oash items: Cash Due from agents				\$11,142 70	l .
Other assets:  Materials and supplies  Debit balances from companies					- 66,998 28
W. R. Burt, receiver. T., A. A. & N. M. Ry.				\$36,658 96 48,911 35 85,284 85 1,402 45	
ncome account					- 171,652 65 6,812 72
Total					\$14,581,826 03
9	BNERAL	BALANC	E SHEETCr.		<del></del>
Capital stock					\$7,250,000 00
Funded debt		•			1,000,000 00
Unfunded debt: Notes payableVouchers and accounts				\$100,000 00 209,139 15	ı

Other liabilities (list as follows):
State of Michigan (accrued taxes)......

Total_______\$14,581,826 03

22,686 88

331,826 03

### COST OF ROAD AND EQUIPMENT.

PURCHASED BY PRESENT COMPANY.		
When purchased: July 2, 1895. Original cost to present company of road and equipment		314,336,867 38
Total cost to date of report	.,	14,836,867 88
Average cost per mile of road (not including sidings) 302.78 miles		47,858 59
IN THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE		
ANALYSIS OF EARNINGS.—IN STATE OF MICHIG	AN.	
PASSENGER BARNINGS.  Main line and branches:		
Local fares	\$223,490 09 968 93	
Total passenger fares	\$224,454 03	
Express and baggage Malls	20,210 68 88,293 72	
Total passenger department earnings		\$282,960 42
Per train mile	<b>9</b> 0 68.22 958 60	
FREIGHT BARNINGS.		
Main line and branches:	\$612,758 29 94,849 92	
Through traffic	\$707,608 21	
Total freight department earnings		707,608 21
Per train mile		101,000 22
Per mile of road	\$1 44.39 2,384 69	
ANALYSIS OF EARNINGS.—ENTIRE LINE.		
PASSENGER MARNINGS.		
Main line and branches: Local fares Through fares	\$229,282 86 983 50	
Total passenger fares	\$230,266 36	
Express and baggage	20,570 68 88,952 84	
Total passenger department earnings		\$289,789 88
Per train mile Per mile of road	\$0 67.88 957 25	
PRHIGHT HARMINGS.		
Main line and branches: Local traffic	\$688,698 75 85,180 17	
Through traffic		
Total freight department comings	\$723,878 92	e790 979 AA
Total freight department earnings  Per train mile	\$1 42.78	\$723,878 92
Per mile of road	2,891 17	
Total transportation earnings, entire line		\$1,125,215 46
Transportation earnings per mile of road, boat earnings deducted		
Transportation earnings per train mile, boat earnings deducted	\$1 08.55	

Miscellaneous receipts from operating account, other than for transportation,	
as follows: From car mileage balance \$12,138 58	
From telegraph companies 3.010 78	
From rents of tracks, yards and terminals 25,667 25 From rents not otherwise provided for 1,280 35	
From other sources	
Total	#4E E04 OF
	\$45,534 89
Total earnings from operation of road	\$1,170,750 88
Total earnings per mile of road, less boat earnings	
Total income from all sources	1,170,750 85
Proportion of income for Michigan	1,026,167 27
analysis of expenses.	
MAINTENANCE OF WAY AND STRUCTURES.	
	#979 ASE 97
Repairs of roadway	\$278,035 27 19,664 59 24,505 42 22,979 29 11,372 68
Kenewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of bridges and fixtures Repairs and renewals of dooks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses	24,505 42
Kepairs and renewals of bridges and culverts	22,979 29 11 372 68
Repairs and renewals of buildings and fixtures.	94,475 84 29,792 22
Repairs and renewals of docks and wharves	29,792 22 5,136 49
Stationery and printing	595 <b>3</b> 8
Other expenses	91 63
Total	\$481,648 81
	=====
MAINTENANCE OF EQUIPMENT.	
Superintendence	\$9,769 83 37,491 19
Repairs and renewals of locomotives	37,491 19
Repairs and renewals of freight cars	15,673 06 63,931 56
Repairs and renewals of work care	6,475 80 38,395 87
Repairs and renewals of shop machinery and tools	8,408 15
Aspairs and renewals of locomotives	443 40
Tther expenses	37 89
Total	\$180,626 25
•	
CONDUCTING TRANSPORTATION.	
Superintendence	\$14,902 00 72 180 58
Ingine and roundhouse men. The for locomotives.  Water supply for locomotives.  It tallow and waste for locomotives.	72,180 58 81,592 40 3,015 55 2,432 05 885 83 54,558 30 5,656 79
Vater supply for locomotives	3,015 55
	2,432 U0 885 89
Tain service Train supplies and expenses witchmen, flagmen and watchmen	54,558 30
rain supplies and expenses	5,656 79 28,824 77
	18 725 20
tation service	55,846 26 3,255 76
Station supplies	
tation service Station supplies witching charges—Balance Lar mileage—Balance Loss and damage	1,858 20
oss and damage	1,858 20 7,570 43 2,999 26 2,224 83 51,690 73
njuries to persons	2,224 83
perating marine equipment	51,690 73
ldvartigin <b>ø</b>	1,103 00 7,145 46
Outside agencies Lents for tracks, yards and terminals Lents of buildings and other property	8,986 05 2,153 88
Rents of buildings and other property	2,153 88
tationery and printing	6,171 34 761 25
Total	\$441,852 95

### GENERAL EXPENSES.

Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  BECAPITULATION OF EXPENSES.		\$20,754 04 11,347 50 2,440 30 7,688 88 8,900 66 2,430 25 2,213 87 29,056 86 \$79,831 86
ENGLITORATION OF MALENDES.	Per cent of expenses.	
Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes	40.69 15.27 87.29 6.75	\$481,648 81 180,626 25 441,352 95 79,831 86
Total operating expenses and taxes.	100.00	\$1,183,459 87
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains earning revenue, 834.213 miles.  Proportion of operating expenses and taxes for Michigan, main line.	\$1 <b>2</b> 6.68	\$3,909 29 1,160,027 36
Total proportion of expenses for Michigan		
Percentage of expenses to earnings	101.08	
Net earnings per mile of road, none. Net earnings per train mile, none.		
DESCRIPTION OF ROAD.		
Date when road was opened for use between its present termini: From Toledo, Ohio, to Frankfort, Michigan, November 17, 1839.		
-		
MAIN LINE.	Wiles	Wilso
MAIN LINE.  In Michigan, from State line to Frankfort, Mich.  In Ohio, from State line to Toledo, Ohio	Miles. 289.89 6.00	Miles.
In Michigan, from State line to Frankfort, Mich.	289.89 6.00	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio	289.89 6.00	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio Total length completed.	289.89 6.00	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed  BRANCHES.  From main line to Ithaca.  From main line to St. Louis	289.89 6.00 1.61 1.42 1.00 1.52 1.29	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river From main line to Ross mill. From main line to Diggins mill.	289.89 6.00 1.61 1.42 1.00 1.52 1.29	295.89
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis From main line to Pine river From main line to Ross mill. From main line to Diggins mill  Total length of branches owned by company.	289.89 6.00 1.61 1.42 1.00 1.52 1.29	295.89
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca.  From main line to St. Louis  From main line to Pine river  From main line to Ross mill.  From main line to Diggins mill  Total length of branches owned by company.  Total length of branches owned by company in Michigan.	289.89 6.00 1.61 1.42 1.00 1.52 1.29	295.89
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis From main line to Pine river From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company  Total length of road belonging to this company	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	295.89 6.84 302.73 296.78
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company.  Total length of road belonging to this company  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, comput	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	295.89 6.84 302.73 296.78 53.87
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis From main line to Pine river From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above ent track.  Gauge of track, 4 feet 8½ inches.  Number of bridges and trestles in Michigan.	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	295.89 6.84 302.73 296.78 53.67
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis From main line to Pine river From main line to Ross mill From main line to Diggins mill  Total length of branches owned by company.  Total length of road belonging to this company  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs, and other tracks not above ent track  Gauge of track, 4 feet 8½ inches.	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	6.84 302.73 296.78 53.57 350.30

### Crossings-railread and highway.

What railroads cross your road at grade in this State, and at what locality? Lake Shore & Michigan Southern R. R. at Monroe Junction, Dundee & Pittsfield. Wabash R. R. at Milan. Detroit, Lansing & Northern R. R. at Howell Junction & St. Louis. Detroit, Grand Haven & Milwaukee R. R. at Durand. Chicago & Grand Trunk R. R. at Durand. Flint & Pere Marquette R. R. at Clare. Grand Rapids & Indiana R R. at Cadillac. Michigan Central R. R. at Owosso. Cummer Lumber Co. R. R. at Cadillac. Manistee & North Eastern R. B. at Copemish. Chicago & West Michigan R. R. at Thompsonville.	
What railroads cross your road either over or under your grade in this State, and where? Under: Michigan Central R. B. at Ann Arbor.	
At what crossings are interlocking and derailing switches in operation?  M. A. L. at Hamburg Junction. D., L. & N. at Howell. C. & G. T. and D., G. H. & M. at Durand. M. C. at Owosso. F. & P. M. at Clare. G. B. & I. at Cadillac. C. & W. M. at Thompsonville.	
What pattern or patterns have you adopted? Union Switch and Signal, Allentown.	
Number of crossings of highways at grade in this State	394 4 4
What pattern or patterns in use? O'Neill's.	
Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of highway bridges 18 feet above track	7
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Yes.	
How are they treated? Blocked by wood or patent iron filling.	
Stations.	
Number of stations on whole lines	68 64
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	869 747
Classify your employés as per following list:	Number.
Baggagemen	_6
Brakemen	57 28 46 46 203 214
Engineers Firemen	48 48
Laborers	203
ShopmenYardmen	214 44 225
YardmenOthers	225
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you.	557
Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	
Clare and Benzie	20
	<del></del>

### Road bed and track.

Number of track sections in Michigan	46
Average lengths of sections, miles	6.48
Average number of men in each section gang	4.5
Number of new ties put in whole line during the year	183,875
Number of new ties put in track in Michigan	176,458
Average number of new ties per mile of road	607
New rails put in track:	
Steel, tons, 551 1010-2040, miles	1,998 5.01
Total miles of track laid with new rails	5.01

### Bridges and culverts.

Amount of treatle work replaced with earth during the year (linear feet) 874

New bridges built during the year—number, 13. .

Location.	Kind.	Material.	Month built.	feet in length.
Between Dundee and Azalia	Deck girder Deck girder Deck girder Deck girder	Iron and wood Iron and wood Iron and wood	March May April November	208 20 148 7
Lake	Deck girder	Iron	November	20
Between Hamburg and Hamburg Junction Between Hamburg and Hamburg	Deck girder	Iron	January	20
Junction	Through girder Through girder	Iron	January January	126 20
Between Hamburg Junction and Pettysville Between Pettysville and Chilson Between Pettysville and Chilson	Through girder Through girder Through girder	IronIron	January	20 10 12
Between Corunna and Owosso	Through girder	Iron	November	12
Between Thompsonville and Crystal Lake	Through girder	Iron and wood	December	98

### BOLLING STOCK.

BOBBING STOOL.		Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	41 2	\$123,100 00 3,200 00
Total	43	\$126,300 00
Number of passenger cars—12-wheel, including official cars. Number of express and baggage cars. Number of box freight cars. Number of platform cars. Number of conductors' way cars. Other cars as follows: 2 steam shovels, 1 pile driver, 3 snow plows, 5 relief, 1 derrick, 2 tool.	23 5 1,337 404 26	\$46,851 59 14,440 40 346,474 22 51,399 48 5,444 40 6,161 88
Total	1,809	\$600,071 97
Number of locomotives equipped with power brakes	42 28 727	

What patterns of power brakes have you in use, and number of locomotives and cars with each? 28 passenger cars, Westinghouse; 38 locomotives, Westinghouse.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

955 box cars are.

What pattern or patterns have you adopted for use? Trojan.

How are your passenger cars heated? Steam from engines (Commingler system).

### MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. I	n Michigan.
Miles run by passenger trains during the year	427,218 506,995	414,762 490,045
Total mileage of trains earning revenue	984,218	904,807
Passenger traffic.—Entire lines. Numbers	Miles.	Rate.
Number of through passengers carried, earning revenue	M.1105.	Itaus.
Total number of passengers carried earning revenue 304,002		
Number of passengers carried one mile	10,669,160 35.09	
Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers		\$0 75.70 02.05 02.15 02.16
Passenger traffic.—In State of Michigan.		
Number of through passengers carried, earning revenue		
Total number of passengers carried earning revenue 303,701		
Number of passengers carried one mile	10,359,119 34.10	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.		\$0 73.90 02.05 02.16 02.16
Freight traffic.—Entire lines. Tons.	Miles.	Rate.
Freight traffic.—Entire lines.  Number of tons of through freight carried, earning revenue	Miles.	Rate.
Number of tons of through freight carried, earning revenue		Rate.
Number of tons of through freight carried, earning revenue		Rate.
Number of tons of through freight carried, earning revenue		Rate.
Number of tons of through freight carried, earning revenue 118,890 Number of tons of local freight carried, earning revenue 851,674  Total tons of freight carried, earning revenue 970,068  Total mileage of through freight 70tal mileage of local freight 70tal freight mileage or tons carried one mile 80tal freight mileage or tons carried one mile 80tal freight 70tal freight mileage or tons carried one mile 80tal freight 80tal for through freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80	35,374,633 71,277,671 06,652,304 298.8 83.7	\$0 74.62 00.24 00.69 00.678
Number of tons of through freight carried, earning revenue 118,898 Number of tons of local freight carried, earning revenue 851,674  Total tons of freight carried, earning revenue 970,068  Total mileage of through freight 70tal mileage of local freight 70tal freight mileage or tons carried one mile 80tal freight mileage or tons carried one mile 80tal freight 70tal freight mileage or tons carried one mile 80tal freight 70tal freight mileage or tons carried one mile 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal fre	35,374,633 71,277,671 06,652,304 298.8 83.7	\$0.74.62 00.24 00.89
Number of tons of through freight carried, earning revenue 118,890 Number of tons of local freight carried, earning revenue 851,674  Total tons of freight carried, earning revenue 970,068  Total mileage of through freight 70tal mileage of local freight 70tal freight mileage or tons carried one mile 80tal freight mileage or tons carried one mile 80tal freight 70tal freight mileage or tons carried one mile 80tal freight 80tal for through freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80tal freight 80	35,374,633 71,277,671 06,652,304 298.8 83.7	\$0.74.62 00.24 00.89
Number of tons of through freight carried, earning revenue 118,889  Number of tons of local freight carried, earning revenue 851,674  Total tons of freight carried, earning revenue 970,063  Total mileage of through freight 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 m	35,374,633 71,277,671 06,652,304 298.8 83.7	\$0.74.62 00.24 00.89
Number of tons of through freight carried, earning revenue 118,859.  Number of tons of local freight carried, earning revenue 851,674  Total tons of freight carried, earning revenue 970,063  Total mileage of through freight 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700	35,374,633 71,277,671 06,652,304 298.8 83.7 109.9	\$0.74.62 00.24 00.89
Number of tons of through freight carried, earning revenue 118,898  Number of tons of local freight carried, earning revenue 970,063  Total tons of freight carried, earning revenue 970,063  Total mileage of through freight 70tal mileage or tons carried one mile 80te 10tal freight mileage or tons carried one mile 80te 10tal freight mileage or tons carried one mile 80te 10tal freight mileage or tons carried one mile 80te 10tal freight 10tal for through freight 10tal mileage ton haul for local freight 10tal freight 10tal mileage on tons carried one mile 10tal freight 10tal mileage on tons carried for each ton haul 10tal mileage on through freight 10tal freight 10tal mileage of through freight carried, earning revenue 10tal 10tal mileage of through freight 10tal mileage of through freight 10tal mileage of through freight 10tal mileage of local freight 10tal mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried one mile 10tal freight 10tal mileage or tons earried 10tal mileage 10tal freight 10tal mileage 10tal freight 10tal mileage 10tal freight 10tal mileage 10tal freight 10tal mileage 10tal freight 10tal mile	35,374,633 71,277,671 06,652,304 298.8 83.7 109.9 36,397,968 69,544,002 105,941,970	\$0.74.62 00.24 00.89
Number of tons of through freight carried, earning revenue 118,859  Number of tons of local freight carried, earning revenue 851,674  Total tons of freight carried, earning revenue 970,063  Total mileage of through freight 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 mile 700 m	35,374,623 71,277,671 06,652,304 298.8 83.7 109.9 36,397,968 69,544,002 105,941,970 292.8 82.2	\$0.74.62 00.24 00.89

### MICHIGAN RAILROAD RETURNS, 1896.

### FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

### Company's material excluded.

	Freight	Freight received from	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
(+rain	16,636	29,711	46,347	4.78
Flour	16, <b>63</b> 6 7,773	29,711 28,274	36,047	8.72
Flour Other mill products	8.558	9,840	13,398	1.38
Hay	8,287	15,154	23,441	2.4
Tobacco		1,853	1,853	.19
Cotton		4,153	4,153	.4
Potatoes	7,137 1,392	10,113	17,250	1.78 .76
	1,382	6,014	7,406	. 10
Products of animals: Live stock	9.066	672	9.738	1.0
Dressed meats.	13	J	13	.ŏ
Other packing house products		140	140	.ŏ.
Poultry, game and fish	1 834	726	1,060	.1
Wool	175	162	337	.0.
Wool Hides and leather	. 1,304	2,533	8,837	.40
Products of mines:				
Anthracite coal Bituminous coal	22	19,204	19,226	1.9
Bituminous coal		286,863	286,863	29.5
Coke	174	1,040	1,040	.1
OresStone, sand and other like articles	578	l	174	.o
Salt	1 1	4,892 4,092	5,470 4,093	.5 .4.
Products of forest:		ŀ		
Lumber	127,926	71,775	199,701	20.5
Logs	74,587	2,419	77,006	7.9
Charcoal	11,620	182	11,752	1.2
Manufactures:				
Petroleum and other oils	5,670	5,607	11,277	1.1
SugarStaves and heading	181	2,266	2,447	.2
Staves and neading	26,455 867	7,182	33,637	8.4
Iron, pig and bloom	001	2,781 512	8,148 512	.3 .0
Other castings and machinery	6,276	8,076	14,352	1.4
Bar and sheet metal.	98	122	220	1.0
Cament heigh and lime	5.031	4.034	9.065	.9
Agricultural implements	396	962	1,858	.1
Wagons, carriages, tools, etc.	382	1 907	1,289	. î
Agricultural implements Wagons, carriages, tools, etc Wines, liquors and beers Household goods and furniture	3,263	2,748	B 019 I	.6
Household goods and furniture	3,862	1,098	4,960	.5
Ice	27,121	852	27,973	2.8
Merchandise	13,766	23,034	36,800	3.7
Miscellaneous: Other commodities not mentioned above	19,480	27,189	46,669	4.8
Total tonnage	382,931	587,132	970,063	100

### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

### Company's material excluded.

O	Freight	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and	Whole tons.	Per cent.
Products of agriculture:	10.000	90 744	40.045	
Grain	16,636	29,711 28,274 9,840	46,847	4.7 3.7
Flour Other mill products.	9 859	20,214	36,047 18,398	3.7 1.8
Hay	7,778 8,558 8,287	15,154	23,441	2.4
Tobacco	0,401	1,853	1.853	.1
Cotton		4,153	4.158	:4
Fruit and vegetables	7,137	10,118	17,250	1.7
Cotton Fruit and vegetables Potatoes	1,392	6,014	7,406	.7
Products of animals:				
Live stock	9,066	. 672	9,738	1.0
Dressed meats	18		13	.0
Other packing house products Poultry, game and fish		140	140	.0
Poultry, game and fish	334	728	1,060	.1
Wool Hides and leather	175	. 162	337	.0
Hides and leather	1,804	2,533	3,837	.4
Products of mines:				
Anthracite coal	22	19,204 286,863	19,226 286,863	1.9
Bituminous coal		286,863	286,863	29.5
Coke		1,040	1,040	.1
Ores Stone, sand and other like articles	174		174	.0
Salt.	578 1	4,892 4,092	5,470 4,093	.5 .4
Products of forest:			1	
Lumber	127,926	71,775	199,701	20.5
Logs	74,587	2,419	77,008	7.9
Charcoal	11,620	132	11,752	1.2
Manufactures :				
Petroleum and other oils.	5,670	5,607	11,277	1.1
Sugar	181	2,266	2,447	.2
Sugar Staves and heading	26,455	7,182	88,637	8.4
Iron, pig and bloom Iron and steel rails Other castings and machinery	367	2,781	8,148	.3
Iron and steel rails		512	512	0.
Other castings and machinery	6,276	8,076	14,852	1.4
Bar and sheet metal	98	122	220	.0
Cement, brick, and lime	5,031 396	4,034 962	9,085 1,358	.9 .1
Agricultural implements	382	907	1,289	.1
Wines lignors and beers	3 263	2,748	6,011	.6
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture	3,263 8,862	1,098	4.960	.5
Ice	27,121	832	27,978	2.8
Merchandise	13,766	23,034	36,800	3.7
Miscellaneous: Other commodities not mentioned above	19,480	27,189	46,669	4.8
Total tonnage	382,931	587,132	970,063	100

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Freight taken at depots only. Fixed rate per mile of road.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Ann Arbor Railroad Co., 301.41 miles.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1898.

### KILLED

January 26, Geo. Faust, brakeman, Marion. Fell from train; carelessness.
July 28, J. Entwisle, trespasser, Owosso. Trespasser; carelessness.
November 26, Jno. Fitzpatrick, sectionman, Mt. Pleasant. Struck by engine; carelessness.

### INJURED.

January 1, H. O. Smith, brakeman, Mt. Pleasant. Coupling cars.

January 20, John Hunt, brakeman, Pettysville. Falling from train.

February 14, W. M. Hay, brakeman, Samaria. Coupling cars.

April 15, Geo. Stormes. sectionman, Byron. Handling timber.

April 15, Geo. Stormes. sectionman, Hamburg Junction. Cutting timber.

July 7, Jno. Keating, sectionman, Hamburg Junction. Cutting steel rail.

July 9, F. Mann, brakeman, Byron. Coupling cars.

July 27, W. Brazen, sectionman, Ann Arbor. Dumping car.

August 5, Geo. Snell, brakeman. Thompsonville. Climbing between cars.

August 19, G. B. Harris, fireman, Urania. Engine derailed,

Angust 26, D. Wright, sectionman, Milan. Push car ran over leg.

September 30, M. Kruse, car repairer, Owosso. Moving car axles.

October 19, John Reilly, pitman, Howell Junction. Excavating.

October 19, Tony Parisb, laborer, Ann Arbor. Climbing on car.

October 29, T. Blacklock, conductor, Hamburg Junction. Falling from train.

November 1, J. L. Scott, brakeman, Dundee. Coupling cars.

December 28, Miss M. Kearney, Ann Arbor. Coasting across track, struck by switch engine.

December 28, Miss M. Kearney, Ann Arbor. Coasting across track, struck by switch engine.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.		Injured.			
Causes of accident.	Pass- engers.	Employés.	Others.	Pass- engers.	Employés.	Others.
Coupling cars.  Derailments Falling from trairs. Getting on and off trains.  Highway crossings		1			5 1 2 1	3
Miscellaneous Trespassers on tracks Struck by engine.		i	1		8	
Total		2	1		17	. 8

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	3
Number of persons injured during the year	20
Number of casualties purely accidental	14
Number resulting from lack of caution, carelessness, or misconduct	6

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen		7	7
Brakemen Conductors		1	1
Laborers Not classified above		6 2	6 8
Total	_ 2	17	19

STATE OF OHIO, \ COUNTY OF LUCAS, \ 88.

W. B. Burt, president, and F. Gossman, auditor, of the Ann Arbor Bailroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

W. R. BURT. President.

Subscribed and sworn to before me this 19th day of April, A. D. 1897, [L. S.]

W. R. BURT, President. F. GOSSMAN, Auditor.

J. A. MILLER, Notary Public.

### ANNUAL REPORT

### OF THE

### ARCADIA & BETSEY RIVER RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed January 29, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, HENRY STARKE, Arcadia, Mich.
Vice President, HENRY MAUNTLER, Arcadia, Mich.
Secretary, CHAS. J. STARKE, Arcadia, Mich.
Auditor, ADOLPH HASSE, Arcadia, Mich.
Treasurer, CHAS. J. STARKE, Arcadia, Mich.
General Manager, HENRY STARKE, Arcadia, Mich.
Chief Engineer, JOHN A. MITCHELL, Ludington, Mich.
Traffic Manager, CHAS. J. STARKE, Arcadia, Mich.
Attorney, A. J. DOVEL, Manistee, Mich.

### DIRECTORS.

HENEY STARKE, Arcadia, Mich.
CHAS. J. STARKE, Arcadia, Mich.
HENRY MAUNTLER, Arcadia, Mich.
MARIA STARKE, Arcadia, Mich.
JOHN WELDT, Arcadia, Mich.
Term expires December 31, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 25, 1895. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$140,000. Date of annual meeting of stockholders: First Monday in January. Fiscal year of company ends: December 31. General offices of the company are located at Arcadia, Mich.

GENERAL EXHIBIT. Debit.	Credit.
Total earnings from operation. Total expenses, including taxes	\$6,022 84
Net income.	\$2,979 56
Balance applicable to dividends	\$2,979 56
Balance for the year	\$2,979 56 335 98
Balance forward to next year	\$3,315 52
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association	\$165,000 00
Par value of shares         \$100 00           Number of shares issued         1,400           Amount paid in on common         \$140,000 00	
Total amount paid in, as per books of the company	\$140,000 00
Paid in per mile of road owned by company, 20½ miles	\$6,829 27

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

		<del>,</del>		<del>,</del>
Class, character and date of iss	Rate of interest.	When due.	Where payable.	Amount out- standing.
Capital paid in				\$140,000 00
-	Unfund <b>e</b> d	DEBT.		
For what incurred.	Is the same to	be funded or ho	w liquidated?	Amount.
For miscellaneous.				\$335 96
Fotal funded debt	RBCAPITUL			_ \$140,000 00 _ 335 96
Total debt liabilities				\$140,335 96
Amount of debt liabilities per mile Total amount of stock and debt Stock and debt per mile of road (20)	of road (20% mile	s)	•	16 38 140,835 96
Construction account			4,911 0	7
GE	ENERAL BALAN	CE SHEET.—CR		
Capital stock Untunded debt: Dividends unpaid Profit and loss or income accounts. Total				- 335 96 - 2,979 56
	ST OF ROAD AN			
Total cost for construction	n and equipment	of road and bran	ches built by compa	n.v.
Total expended for construction an Average cost per mile of road, not i Proportion of cost for Michigan	d equipment ncluding sidings,	20% miles, 2% mi		-
		resent company.		
When purchased: September 25, 189 Original cost to present company, c Amount expended since purchase, a Amount expended since purchase, a	5. of road and equips eccount of constru eccount of equipm	nent ction ent		\$113,689 34 24,975 72 204 66
Lass a mount resolved from sale	of narrow guage	engine		\$188,869 72 750 00
These withoute taget and thout safe				
Total cost to date of report				\$138,119 72

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

Extensions and new sidings and ballasting.  New buildings.  New fences.  Machinery and tools.  New Cars.  Total	385 80 403 70 4,106 00 204 66
•	
Total charges to property account as above	15,962 71 750 00 14,612 71
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.	
PASSENGER EARNINGS.  Main line and branches:	
Local fares \$50 6	
Total passenger fares 50 6	<del>8</del>
Total passenger department earnings	. \$50 68
Per mile of road, 17% miles operated	0
Freight Earnings.	
Main line and branches: Local traffic	n
Through traffic 189 8 Total traffic 5,972 1	6
	-
Total freight department earnings	. 5,972 16
Per mile of road, 17¼ miles operated	7 4 8
Total earnings from operation of road	6,022 84
Total earnings per mile of road, 17% miles operated.	_ 344 16
Total income from all sources	
Proportion of income for Michigan	
Troportion of moome for miningan	- 0,022 01
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STEUCTURES.	
Renewals of ties }	<b>\$401 65</b>
Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards	9 96 6 98
Repairs and renewals of fences, road crossings, signs and cattle guards	
Total	\$418 54
MAINTENANOU OF BQUIPMENT.	
P	
Repairs and renewals of passenger cars } Repairs and renewals of freight cars Repairs and renewals of work cars	<b>\$568 47</b>
Total	\$568 47
CONDUCTING TRANSPORTATION.	
Engine and roundhouse men Fuel for locomotives Oil, tailow and waste for locomotives Train service Telegraph expenses Loss and damage Advertising Stationery and printing Other expenses	492 72 3 13 25 62 4 63
Total	\$1,853 88

GENERAL EXPENSES.  Law expenses	\$179 22
Taxes	28 22
Total	\$207 44
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	<b>\$418 \$7</b>
Maintenance of equipment.	568 44
Conducting transportation. General expenses, including taxes.	1,858 88 207 44
Total operating expenses and taxes	\$8,048 28
Proportion of operating expenses and taxes for Michigan	8,043 28
Total proportion of expenses for Michigan	\$3,043 28
Percentage of expenses to earnings 50.53%	170 00
Net earnings per mile of road.	170 26
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:	
From Arcadia to C & W. M. Ry. crossing, about November 15, 1895. From Arcadia to Copemish, Mich., December 12, 1896.	
MAIN LINE.	Wiles
In Michigan, from Arcadia to Copenish	Miles. 20.50
Total length completed, but not all ballasted	20.50
. BRANCHES,	
From main line to timber lands	2.50 2.50
Total length of branches owned by company in Michigan	2.50
Total length of road belonging to this company, including branches.	23.00
Total length of road belonging to this company, in Michigan, including branches	23.00
Gauge of track, 4 feet 81/4 inches.	
Number of bridges and trestles in Michigan.	
Wooden bridges, number of:	
Four small bridges across creeks	
Total	•
Crossings.—Railroad and Highway.	
What railroads cross your road at grade in this State, and at what locality! C. & W. M. R. R. at Henry, section 15, T. 24, N. 14 W.	
At what crossings are interlocking and derailing switches in operation? C. & W. M. railroad crossing.	
What pattern or patterns have you adopted? National Switch & Signal Co. half interlocking switch and signal system, as ordered by th Railroad Crossing on Oct. 29, 1895.	e Board of
Number of crossings of highways at grade in this State? Twenty-three.	
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.	
How are they treated? Wooden blocks.	
Stations.	
Number of stations on whole lines, including flag-stationsSame in Michigan	13 13

# Employés.

	l on all roads operated by co			20 to 30 20 to 30
Same in Michigan  Classify your employée as per followi				Number
Brakemen	•			Number 1
Conductors				
Engineers Firemen				
Laborers				12 to 2
Shopmen Others				
			=	
	REPAIRS AND RENEWALS.			
	Fencing in Michigan.			
How many miles of fencing have you live the number of miles required to and the counties in which needed:	complete fence both sides of	of your track	in Michigan	19 22
	Road bed and track.			
Soad not yet divided into sections. Construction gang attend to mainten Number of new ties put in track in M Steel rails, 3 miles; about 284 tons, sec	ichigan, including extensio cond-hand rail laid by A. A.	n to Copemial Ry.	h, <b>6,443</b> .	
	Bridges and culverts.			
lew bridges built during the year—n	umber			1
Location.	Kind.	Material.	Month built.	Feet in length
lection 12, T. 24, N. 14 W	Timber	Wood	September	50
	ROLLING STOCK.		Pre Number, ma	esent esti- ted value
umber of locomotives of more than	30 tons weight, exclusive of			\$6,775 00
		tender	1	40,110 0
		tender		
Total umber of platform cars			1 .15	86,775 0
Total			1 .15 1	\$6,775 0 3,227 4 204 6
Total. umber of platform cars umber of conductors' way cars ogging cars			1 .15	\$6,775 0 3,227 4 204 6 3,400 0
Total			1 15 1 34	\$6,775 00 3,227 41 204 66 3,400 00
Total Total Total Total Total Total number	you in use, and number of le		1 15 1 34 	\$6,775 00 3,227 41 204 66 3,400 00 \$13,607 00
Total  Total  Total  Total  Total number  Total number  What patterns of power brakes have;  New York Air brake on locomotive.  Tre your freight cars being each of 1885, as a mended by act No. 88	you in use, and number of le	ocomotives ar	1 15 15 1 34 50 =	\$6,775 00 3,227 41 204 66 3,400 00 \$13,607 00
Total.  Number of platform cars.  Number of conductors' way cars.  Logging cars.  Total number.  What patterns of power brakes have	you in use, and number of lowith automatic couplers as session laws of 1887?	ocomotives ar	1 15 15 1 34 50 =	\$6,775 00 3,227 41 204 66 3,400 00 \$13,607 07
Total. Jumber of platform cars Jumber of conductors' way cars Jumber of conductors' way cars Jumber of conductors' way cars Jumber of cars Jumber of cars Jumber of cars bakes have on locomotive. The conductors of company cars Jumped of 1885, as amended by act No. 88, No.  What pattern or patterns have you accommon.	you in use, and number of lowith automatic couplers as session laws of 1887?	ocomotives ar	1 15 15 1 34 50 =	\$6,775 00 3,227 41 204 66 3,400 00 \$13,607 00
Total	you in use, and number of lower of the with automatic couplers as session laws of 1887?	ocomotives ar	1 15 15 1 34 50 =	\$6,775 00 3,227 41 204 66 3,400 00 \$13,607 07
Total	you in use, and number of le with automatic couplers as session laws of 1887? dopted for use?	ocomotives ar required by a	1 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	96, 775 00 3, 227 4 204 66 3, 400 00 \$13,600 00
Total Jumber of platform cars Jumber of conductors' way cars Jumber of conductors' way cars Jumber of conductors' way cars Jumber of total number Total number Jumper of power brakes have: New York Air brake on locomotive re your freight cars being equipped of 1885, as amended by act No. 88, No. What pattern or patterns have you accommon.	you in use, and number of le with automatic couplers as session laws of 1887? dopted for use? MILEAGE TRAFFIC, EXC what traffic.—In State of Mic	required by a	1 15 15 1 34 50 =	\$6,775 0 3,227 4 204 6 3,400 0 \$13,607 0

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

Freight originating on this road—Whole tons: Products of agriculture—Straw. Products of forest—Lumber	10 187
Logs, 5, 129,006 feet. Cordwood, 347 cords. Tan-bark, 968 cords. Manufactures—Iron and steel rails.	58
Wagons, carriages, tools, etc Household goods and furniture	1-10

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

No express companies on this line.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
Twenty-one miles of telephone line belonging to Henry Starke Land and Lumber Co.

# STATE OF MICHIGAN, \ 88.

Chas. J. Starke, secretary and treasurer, and Henry Mauntler, vice president, of the Arcadia & Betsey River Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

CHARLES J. STARKE. HENRY MAUNTLER.

Subscribed and sworn to before me this 27th day of January, A. D. 1897. [L. S.]

ADOLPH HASSE,
Notary Public for Manistee County.

#### OF THE

# AU SABLE & NORTHWESTERN RAILROAD COMPANY,

For the year ending December 31, 1996.

[Filed May 6, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. M. LOUD, Au Sable.

Pice President, GEO. A. LOUD, Au Sable.

Secretary, H. N. LOUD, Au Sable.

Auditor, W. F. LOUD, Au Sable.

Treasurer, W. F. LOUD, Au Sable.

General Manager, GEO. A. LOUD, Au Sable.

General Superintendent, H. PARK, McKinley.

Superintendent of Telegraph, THOMAS CLIFF, Au Sable.

General Passenger Agent, E. F. LOUD, Au Sable.

General Preight Agent, GEO. H. KEATING, Bay City.

Attorney, J. B. TUTTLE, Detroit.

#### DIRECTORS.

H. M. LOUD, Au Sable. GEO. A. LOUD, Au Sable. H. N. LOUD, Au Sable. W. F. LOUD, Au Sable. EDW. F. LOUD, Au Sable.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 22, 1891. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 8. Date of annual meeting of stockholders: July 22. Fiscal year of company ends December 31. General offices of the company are located at Au Sable, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation. Total expenses, including taxes		\$59,885 09
Net deficit	\$11,449 89	
Balance (profit and loss last year)		<b>\$277,811 68</b>
Balance forward to next year.		\$266,362 29
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association Par value of shares Number of shares issued None.	\$100 00	<b>\$560,00</b> 0 00
Amount paid in on common Amount paid in on preferred Total amount paid in as per books of the company Paid in per mile of road owned by company, 108 miles		41,500 00 41,500 00 41,500 00 384 25

# ANALYSIS OF DEBT ACCOUNTS.

# UNFUNDED DEBT.

	Is the same to be funded or how liquidated?	Amount.
For current balances	To be paid	\$145,294 28
	RECAPITULATION.	
Total unfunded debt	e of road, 108 miles	\$145,294 28 145,294 23 1,345 31 186,794 23 1,729 58
Stock and debt per mile of road, 1	06 miles	1,729 58
-	ENERAL BALANCE SHEET.—Dr.	
Construction account	} 	\$449,104 28
	and individuals	192 00 3,857 15
		\$458,158 42
e	ENERAL BALANCE SHEET.—Cr.	
Capital stock	<b>4</b>	\$41,500 00 145,291 14 266,362 29
0	OST OF ROAD AND EQUIPMENT.	
	-	
When purchased: July 17 1891	PURCHASED BY PRESENT COMPANY.  of road and equipment	\$173,000 00 47,980 37 22,815 71
	***************************************	
	t including sidings, 108 miles.	\$243,796 08
Average cost per mile of road, no		\$243,796 08
Average cost per mile of road, not	t including sidings, 108 miles	\$243,796 08
Average cost per mile of road, not  ANAL  Main line and branches:	t including sidings, 108 miles	\$243,796 08 2,257 37
Average cost per mile of road, not  ANAL:  Main line and branches:  Local fares  Total passenger fares	t including sidings, 108 miles.  YSIS OF EARNINGS.—ENTIRE LINES.  PASSENGER BARNINGS.  \$5,395 35	\$243,796 08 2,257 37
Average cost per mile of road, not  ANAL:  Main line and branches:  Local fares  Total passenger fares  Mails	### ### ### ### ### ### ### ### ### ##	\$243,796 08 2,257 37
Average cost per mile of road, not ANAL!  Main line and branches: Local fares  Total passenger fares  Total passenger department Per train mile	t including sidings, 108 miles.  YSIS OF EARNINGS.—ENTIRE LINES.  PASSENGER BARNINGS.  \$5,395 35	\$243,796 08 2,257 37 2,7138 11
Average cost per mile of road, not  ANAL  Main line and branches: Local fares  Total passenger fares  Mails  Total passenger department Per train mile Per mile of road  Main line and branches:	### ### ##############################	\$243,796 08 2,257 37 2,257 37
Average cost per mile of road, not ANAL:  Main line and branches: Local fares	### ### ##############################	\$243,796 08 2,257 37 2,257 37
Average cost per mile of road, not ANAL:  Main line and branches: Local fares	### ### ##############################	\$243,796 08 2,257 37 \$7,138 11 52,246 98
Average cost per mile of road, not  ANAL!  Main line and branches: Local fares  Total passenger fares  Mails  Total passenger department Per train mile Per mile of road  Total traffic  Total traffic  Per mile of road  Total traffic  Total traffic  Total traffic  Total traffic  Total traffic  Total traffic	### ### ##############################	\$243,796 08 2,257 37 \$7,138 11 52,246 98
Average cost per mile of road, not  ANAL!  Main line and branches: Local fares  Total passenger fares  Mails  Total passenger department Per train mile. Per mile of road.  Total traffic.  Total freight department ea Per train mile. Per mile of road.  Total transportation earning	### ### ##############################	\$243,796 08 2,257 37 2,257 37 \$7,188 11 52,246 98 \$59,885 09

# ANALYSIS OF EXPENSES.

Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses	\$10,380 26 16,086 13 40,608 66 3,759 43
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures  Maintenance of equipment Conducting transportation General expenses, including taxes	\$10,390 26 16,086 13 40,608 63 3,759 46
Total operating expenses and taxes	\$70,834 48
Operating expenses and taxes per mile of road, 108 miles.  Operating expenses and taxes per train mile run, for trains earning revenue, 137,180 miles.  Proportion of operating expenses and taxes for Michigan: All.	655 88 52
Total proportion of expenses for Michigan	\$70,884 48
DESCRIPTION OF ROAD.	
MAIN LINE. Miles.	Miles.
In Michigan, from Au Sable to McKinley	
Total length completed	65
Branches.	
From McKinley to Woodrow	
Total length of branches owned by company.	
Total length of branches owned by company in Michigan	43 108
Gauge of track, 3 feet.	
Number of bridges and trestles in Michigan.	A
	Aggregate length, feet.
Wooden bridges 2 Wooden trestles 8	800 3,800
Total10	4,600
·	
Crossings.—railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Detroit & Mackinac R. B. at Au Sable.	
At what crossings are interlocking and derailing switches in operation? Detroit & Mackinac R. R.	
What pattern or patterns have you adopted? Union Switch & Signal Co.	
Number of crossings of highways at grade in this State. Thirty.	
Are your frogs and guard rails blocked as required by act 174, session laws of 18837 No.	
How are they treated? Wood.	
Stations.	
Number of *tations on whole linesSame in Michigan	22 23

# Employés.

Number of persons regularly employed on all roads operated by company, including officials	g . 158
Classify your employés per following list.	Number.
Baggagemen	_ 1
DI#K6M60	_ 11
Conductors	- 11 - 15 - 15 - 85 - 7
Firemen	- 15
Laborers	. 85
Shopmen	- 7
Yardmen	·
REPAIRS AND RENEWALS.	
Road bed and track.	
Number of track sections in Michigan	_ 10
Average length of sections, miles	_ 6
Average number of men in each section gang	
·	
ROLLING STOCK.	
	Number.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	. 16
Number of locomotives of 10 to 20 tons weight, exclusive of tender	5
Total	. 21
Number of passenger cars—8-wheel, including official cars	- 2 2 2 . 8
Number of express and baggage cars Number of box freight cars.	. ģ
Number of stock cars	. 3
Number of platform cars	. 12
Other cars as follows: Russell's, 240; coal, 22; long timber cars, 50; snow plow, 1	
Total	
Number of locomotives equipped with power brakes	:4
What pattern of power brakes have you in use, and number of locomotives and cars with Air, steam and vacuum.	each?
How are your passenger cars heated? Stoves.	
MILEAGE TRAFFIC, ETC.	
Train mileage.	
· · · · · · · · · · · · · · · · · · ·	ln Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year	27,800
Miles run by freight trains during the year	109,360
Total mileage of trains earning revenue	137,160
Passenger traffic.—Entire lines.	N
Number of through passangers servied serving revenue	Number. 8,976
Number of through passengers carried, earning revenue	. 0,510
Passenger traffic.—In State of Michigan.	
Number of through passengers carried, earning revenue	8,976
Freight traffic.—Entire lines.	
Number of tons of through freight carried earning revenue	Tons. 140,000
Minner or some or entranger steading contract outside teaching	. 110,000
Freight traffic.—In State of Michigan.	
	410.000
Number of tons of through freight carried, earning revenue	140,000

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 65 miles; Au Sable & Northwestern R. R.

STATE OF MICHIGAN, } 88.

Goo. A. Loud, V. P. and H. N. Loud, Sec'y of the Au Sable & Northwestern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

GEORGE A. LOUD, V. P. HENRY N. LOUD, Sec'y.

Subscribed and sworn to before me this 4th day of May, A. D. 1897.

FORREST C. EBLING,
Notary Public in and for Iosco Co., Mich.

OF THE

# BAY CITY BELT LINE RAILROAD COMPANY.

For the year ending December 31, 1896.

[Filed April 30, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ALBERT MILLER, Bay City, Mich. Secretary, CHESTER L. COLLINS, Bay City, Mich. Treasurer, JOSEPH TURNER, Bay City, Mich.

#### DIRECTORS.

ALBERT MILLER, Bay City, Mich.
JOSEPH TURNER, Bay City, Mich.
C. L. COLLINS, Bay City, Mich.
W. H. TOUSEY, (deceased), Bay City, Mich.
GEORGE TURNER, Bay City, Mich.
G. HENRY SHEARER, Bay City, Mich.
E. T. CARRINGTON, Bay City, Mich.
Terms expire first Wednesday in June. 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 30, 1889. Number of stockholders at date of last election: 9. Number of stockholders in Michigan at same date: 8. Amount of full paid stock held in Michigan at same date: \$51,750.00. Date of annual meeting of stockholders: First Monday in June. Fiscal year of company ends, first Monday in June. General offices of the company are located at Bay City, Mich.

# REMARKS.

Of the total mileage owned, 6 21 miles are leased to the Flint & Pere Marquette Railroad Company; and 1.88 miles are leased to the Michigan Central Railroad Company; each lessee company operates and maintains its respective mileage.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$100,000 00
Total amount paid in as per books of the company	\$100,000 00
Paid in per mile of road owned by company, 8 09 miles .	12,360 94

#### ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction		\$13,059 37 5,280 91
	RECAPITULATION.	
Total debt liabilitiesAmount of debt liabilities per mi Total amount of stock and debt.	le of road, 8.09 miles	\$18,340 28 118,340 28 14,627 97 118,340 28 14,627 98
	COST OF ROAD AND EQUIPMENT.	
	OST OF BOAD AND EQUIPMENT.  ion and equipm nt of road and branches built by company	y.
Total cost for construction.  Average cost of construction per	ion and equipm nt of road and branches built by compan	\$113,059 37 13,975 20 113,059 37
Total cost for construction.  Average cost of construction per	tion and equipm at of road and branches built by company	\$113,059 37 13,975 20
Total cost for construction.  Average cost of construction per	tion and equipm nt of road and branches built by company mile of road (not including sidings), 8.00 miles  DESCRIPTION OF ROAD.  MAIN LINE.	\$113,059 37 13,975 20 113,059 37
Total cost for construction.  Total expended for construction.  Average cost of construction per Proportion of cost of construction  Length completed in Michigan:  Length completed in M. R. R. Co.	tion and equipm nt of road and branches built by company mile of road (not including sidings), 8.09 miles n for Michigan  DESCRIPTION OF ROAD.	\$113,059 37 13,975 20 113,059 37
Total cost for construction. Average cost of construction per Proportion of cost of construction  Length completed in Michigan: Leased to F. & P. M. R. R. Co. Leased to M. C. R. R. Co.	mile of road (not including sidings), 8.09 miles  DESCRIPTION OF ROAD.  MAIN LINE.  Miles.	\$113,059 37 13,975 20 113,059 37
Total cost for construction. Average cost of construction per Proportion of cost of construction Length completed in Michigan: Leased to F. & P. M. R. R. Co. Leased to M. C. R. R. Co. Total length completed Aggregate length of sidings, spurs	mile of road (not including sidings), 8.00 miles	\$113,059 37 13,975 20 113,059 37 Miles.

STATE OF MICHIGAN, 88.

Albert Miller, president, and Chester L Collins, secretary of the Bay City Belt Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed

ALRERT MILLER President

[L. S. OF R. R.]

ALBERT MILLER, President. CHESTER L. COLLINS, Secretary.

Subscribed and sworn to before me this 28th day of April, A. D. 1897.

HORACE TUPPER, JR.
Notary Public, Bay County, Mich.

#### OF THE

# BOYNE CITY & SOUTHEASTERN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 12, 1897]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WM. H. WHITE, Boyne City, Mich.
Vice President, THOS. WHITE, Boyne City, Mich.
Secretary, A. D. WHITE, Boyne City, Mich.
Auditor, L. D. FAIRCHILD, Boyne City, Mich.
Treasurer, JAMES A. WHITE, Boyne City, Mich.
General Manager, WM. H. WHITE, Boyne City, Mich.
General Superintendent, R. V. WHITE, Boyne City, Mich.
Assistant General Superintendent, THOS. WHITE, Boyne City, Mich.
Chief Engineer, A. J. TEED, Cadillac, Mich.
Cashier, L. D. FAIRCHILD, Boyne City, Mich.
General Passenger Agent, A. D. WHITE, Boyne City, Mich.
General Freight Agent, GEORGE WHITE, Boyne City, Mich.
Attorney, J. M. HARRIS, Boyne City, Mich.

#### DIRECTORS.

WM. H. WHITE, Boyne City, Mich. THOMAS WHITE, Boyne City, Mich. JAMES A. WHITE, Boyne City, Mich. GEORGE WHITE, Boyne City, Mich. R. V. WHITE, Boyne City, Mich. LYDE WHITE, Grand Rapids, Mich. A. D. WHITE, Boyne City, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 3, 1893. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Date of annual meeting of stockholders: First Monday in January each year. Fiscal year of company ends: December 31, 1896. General offices of the company are located at Boyne City, Mich.

GENERAL EXHIBIT.  Debit.	Credit.
Total earnings from operation Total expenses, including taxes. \$11,558 59	\$19,205 35
Net income.	\$7,646 76
Balance applicable to dividends	\$7,646 76
Balance for the year. Balance (profit and loss) last year.	\$7,646 76 10,150 84
Balance foward to next year	\$17,797 60

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association.	\$256,000 00
Number of shares issued 500 Amount paid in on common \$50,000 00	
Total amount paid in, as per books of the company	50,000 00
Paid in per mile of road owned by company, 16 miles	3,125 00

# ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

		<del></del>		
For what incurred. Is the same to be funded or how liquidated?				
For construction For equipment For renewals For miscellaneous	enewals Paid from earnings			
Total unfunded debt			\$49,781 6	
	RECAPITULATION.			
Total debt liabilities  Amount of debt liabilities per mi  Total amount of stock and debt	le of road, 16 miles		\$49,781 69 49,781 69 3,111 30 99,781 60 6,296 30	
G	ENBRAL BALANCE SHEET.—Dr.			
Equipment account Other investments (specifying sar Dock Roundhouse	ne):	\$69,982 62 15,300 00 450 00 531 91 150 00		
Cash items: Cash		\$254 07 385 68	\$86,414 54 689 78	
Other assets:  Materials and supplies  Debit balances from companies	and individuals.	\$525 00 30,000 00	30,525 00	
Total	•••••••••••••••••••••••••••••••••••••••		\$117,579 2	
(	ENERAL BALANCE SHEET.—Cr.			
	•••••••••••••••••••••••••••••••••••••••	\$50,000 00	\$50,000 00	
Unfunded debt: Notes payable Vouchers and accounts Other liabilities (list as follows):		······································	8,110 90 3,250 96	
Open accounts			88,419 85 17,797 60	
Total		••••••	\$117,579 2	
C	OST OF BOAD AND EQUIPMENT.			

Total expended for construction and equipment	<b>885,282 62</b>
Average cost per mile of road (not including sidings) 15 miles	5.880 16
Proportion of cost for Michigan	85,282 62
•	

# ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.

Main line and branches:  PASSENGER EARNINGS.		
Local fares	\$522 15	
Total passenger fares.	\$522 15	
Maile	307 24	
Total passenger department earnings		\$829 39
Per train mile	\$0 11 51 84	
Wein line and househouse FREIGHT EARNINGS.		
Main line and branches: Local traffic Through traffic	\$16,070 11 1,947 90	
Total traffic	\$18,018 01	
Other sources—freight department	357 95	
Total freight department earnings		18,375 96
Per train mile Per mile of road	\$0 97 1,148 50	
Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile		\$19,205 35 1,200 38 74
Total earnings from operation of road		19,205 35 1,200 33
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Total income from all sources Proportion of income for Michigan		19,205 35 19,205 35
Analysis of expenses.		
ANALISIO OF EAFENDEO.		
MAINTENANCE OF WAY AND STRUCTURES.		\$1,354 56
Repairs of roadway		1 15 14 92 163 62 89 31
Total		\$1,578 56
MAINTENANCE OF EQUIPMENT.		
Repairs and renewals of locomotives		\$1,522 04 48 66 1,154 11
Total		\$2,724 81
CONDUCTING TRANSPORTATION.		
Engine and roundhouse men Fuel for locomotives. Oil, tailow and waste for locomotives. Other supplies for locomotives. Train service. Train supplies and expenses Station supplies. Hire of equipment Loes and damage. Advertising Rent of buildings and other property Stationery and printing. Other expenses.		\$2,156 66 1,586 45 283 72 92 81 1 790 85 19 37 22 95 300 55 93 00 1,040 33 8 40 25 00 53 62 385 74
Total		\$6,859 45

# GENERAL EXPENSES.

Salaries of general officers. Insurance. Law expenses.		\$200 00 75 00 125 77
Total		\$400 77
RECAPITULATION OF EXPENSES.		
Maintenance of way and structures. Maintenance of equipment Conducting transportation General expenses, including taxes.		\$1,578 56 2,724 81 6,859 45 400 77
Total operating expenses and taxes		\$11,558 59
Operating expenses and taxes per mile of road		722 41 44 11,558 59
Total proportion of expenses for Michigan		\$11,558 59
Percentage of expenses to earnings		477 92
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Boyne City, Mich., to Boyne Falls, Mich., August 28, 1893. From White's Junction to Camp No. 2, hovember 12, 1894. From Camp No. 2 to New Camps, December 2, 1896. Extension of main line 2 miles December 20, 1896.		
MAIN LINE.	Miles.	Miles.
In Michigan, from Boyne City to White's Camp	18.12	M1168.
Total length completed		13.12
BRANCHES.		
From White's Junction to Boyne Falls. From Camp to Banking Ground	.82 1.36 .70	
Total length of branches owned by company		2.88
Total length of branches owned by company in Michigan	2.88	
Total length of road belonging to this company	**********	16
Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, computed track	as single	16 16
Gauge of track 4 feet 81/4 inches.		
If north of parallel 44 of latitude: Yes.		
Give date road commenced to be built: April 26, 1893.		
Give date road completed: August 28, 1893, between Boyne City and Boyne Falls.		
Give date road commenced to be operated: August 28, 1893, between Boyne City and Boyne Falls.		
Where built from and to: Boyne City to White's Camp; White's Junction to Boyne Falls.		
Give exact number of miles: Sixteen.		
Number of bridges and trestles in Michigan.	Number	Aggregate length, feet.
Wooden bridges	Number. 2	1engun, 1eeu. 98
Total	2	98

# Crossings.—Railroad and highway.

Orderings: Auder data registrage	
Number of crossings of highways at grade in this State Are your frogs and guard raits blocked as required by act 174, session laws of 18837 Yes.	8
How are they treated?	
Blocked with wooden blocks.  Stations.	
Number of stations on whole lines.	6
Same in Michigan	ě
Phone louis	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	24 24
Classify your employés as per following list:	Number.
Baggagemen	1
Brakemen	1 2 2 2 2 10 2 1
Engineers	Ž
Firemen Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Laborers Labo	10
Shopmen	2
YardmenOthers	2
Road bed and track.  Number of track sections in Michigan	2
Average length of sections (miles).	2 8 4
Average length of sections (miles) Average number of men in each section gang Total miles of track laid with new rails	2
	Present esti- nated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	\$5,700 00 2,000 00
Total2	\$7,700 00
Number of passenger cars—8-wheel, including official cars	\$800 00
Other cars as follows: Logging 33	6,600 00
Total 35	\$7,400 00
Number of locomotives equipped with power brakes:	=======================================
One American.  Number of passenger-train cars equipped with power brakes:	
One Westinghouse air brake.  What patterns of power brakes have you in use, and number of locomotives and cars with	
each? One American steam brake.	
How are your passenger cars heated? Coal stayes.	
MILEAGE, TRAFFIC, ETC.	
	intire lines.
Miles run by passenger trains during the year	7,050 18,780
Total mileage of trains earning revenue	25,830
The same described for Charles and Milabiana	
Passenger traffic.—In State of Michigan. Numbers. Miles.	Rate.
Number of local passengers carried, earning revenue	Nate.
Total number of passengers carried, earning revenue	
Number of passengers carried one mile 12,180	
Average distance carried 7 Average amount received from each passenger	\$0.30
A verse de receinte ner mile (er leca) ne scanders	04.28
Average receipts per passenger per mile for all passengers  Estimated cost of carrying each passenger one mile	04.28 02.5

# Freight traffic.—In State of Michigan.

Number of tons of through freight carried, earning revenue	Tons. 526 86,499	Miles. 7 15	Rate.
Total tone of freight carried, earning revenue	37,025		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile		3,682 547,485 551,167	
Average ton haul for through freight		7 15	
Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight			<b>9</b> 0 49 53 3
Average receipts ton per mile, for all freight.  Estimated cost of carrying one ton one mile			1.2

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigi	al freight tonnage.	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture: Grain Flour Other mill products. Hay Tobacco	106 83	39 48 1 83 3	89 91 107 166		
Cotton Fruit and vegetables Potatoes	1 22 23	9 12 1	10 34 24		
Products of animals: Live stock. Dressed meats. Other packing house products. Poultry, game and fish. Hides and leather.	17 9 5	17 15 34 1	34 24 34 1 6		
Products of mines: Bituminous coal. Salt.		<u> </u>	:		
Products of forest: Lumber Logs. Shingles	295 35,714 80		295 35,714 80		
Manufactures: Petroleum and other oils. Sugar. Iron, pig and bloom Other castings and machinery		38 35 32 29	38 35 33 29		
Cement, brick and lime.  Agricultural implements Wagons, carriages, tools, etc.  Wines, liquors and beers.  Household goods and furniture.		11 10 8 13	11 10 3 13		
Merchandise		16 80	33 40		
Miscellaneous: Other commodities not mentioned above	23	37	60		
Total tonnage	36,499	526	37,025		

STATE OF MICHIGAN, COUNTY OF CHARLEVOIX, \$88.

W. H. White, president, and L. D. Fairchild, auditor, of the Boyne City & Southeastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. H. WHITE, President. L. D. FAIRCHILD, Auditor.

Subscribed and sworn to before me this 5th day of April, A. D. 1897.
[L. S.]

John F. Fairchild, Notary Public.

5

OF THE

# BUCHANAN & ST. JOSEPH RIVER RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed July 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, FRED E. LEE, Dowagiac, Mich. Vice President, JOHN G. HOLMES, Dowagiac, Mich. Secretary, J. O. BECRAFT, Dowagiac, Mich. Treasurer, J. O. BECRAFT, Dowagiac, Mich. Chief Engineer, C. W. HOTCHKISS, Niles, Mich.

#### DIRECTORS.

FRED E. LEE, Dowagiac, Mich. J. O. BECRAFT, Dowagiac, Mich. H. H. PORTER, Dowagiac, Mich. C. W. GROVES, Buchanan, Mich. J. G. HOLMES, Buchanan, Mich. FRANK ENGLISH, Buchanan, Mich. JNO. M. HUBBELL, Buchanan, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 12, 1894. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$5,000. Date of annual meeting of stockholders: October 12. Fiscal year of company ends October 12. General offices of the company are located at Dowagiac, Mich.

#### REMARKS.

The company has built 1% miles of line, but is not in operation yet.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association.		\$20,000 00
Par value of shares	\$100 00	*
Number of shares issued 200		
Amount paid in on common	5,000 00	
Total amount paid in as per books of the company		5,000 00

#### DESCRIPTION OF ROAD.

#### MAIN LINE.

Miles. Total length of road belonging to this company in Michigan ..... 1.75

#### REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?
1% miles.

STATE OF MICHIGAN, BS.

Fred E. Lee, president, and J. O. Becraft, secretary, of the Buchanan & St. Joseph River Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF B. B.]

Signed,

FRED E. LEE, President. J. O. BECRAFT, Secretary.

. Subscribed and sworn to before me this 28th day of July, A. D. 1897.

ABNER M. MOON, Notary Public, Cass county, Mich.

OF THE

# CENTRAL MICHIGAN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. W. BOYNTON, Grand Rapids.
Vice President, WM. E. GROVE, Grand Rapids.
Secretary, M. C. DORITY. Grand Rapids.
Auditor, DAVID L. STIVEN, Grand Rapids.
Treasurer, M. C. DORITY, Grand Rapids.
General Manager, J. W. BOYNTON, Grand Rapids.
Chief Engineer, C. M. RICH, Grand Rapids.

#### DIRECTORS.

J. W. BOYNTON, Grand Rapids, Mich.
W. E. GROVE, Grand Rapids, Mich.
M. C. DORITY, Grand Rapids, Mich.
PARKER MERRILL, St. Louis, Mich.
DAVID L. STIVER, Grand Rapids, Mich.
FREMONT E. SKEELES, Grand Rapids, Mich.
SILAS W. FINCH, Grand Rapids, Mich.
H. C. PEERHAM, Freeport, Mich.
E. W. ELLITHORP, Chicago, Ill.
Terms expire June 1, 1896, or when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 7, 1888. Number of stockholders at date of last election: 18. Number of stockholders in Michigan at same date: 18. Amount of full paid stock held in Michigan at same date: 130 shares. Date of annual meeting of stockholders: June 1. Fiscal year of company ends December 31. General offices of the company are located at Grand Rapids, Michigan.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	_ \$3.000.000 00
Par value of shares \$10	
Amount paid in on common 638,00	ĬŎ.
	_
Total amount paid in, as per books of the company	688,000 00-

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.		te of	When due.	Where payable.	Amount outstanding
July 2, 1888, issued \$7,000,000.00 1st morts	gage	5≴	1938	New York	\$50,000 00
	UNFU	MDED	DEBT.		
For what incurred.	Is the s	ame t	be funded or ho	w liquidated?	Amount.
For miscellaneous	ounts				\$16,500 00
	RECA	PITUL	ATION.		
Total funded debt Total unfunded debt					\$50,000 00 16,500 00
Total debt liabilities					\$66,500 00
Amount of debt liabilities per mile of r Total amount of stock and debt Stock and debt per mile of road, 156 mil	oad, 156	miles			428 84 704,500 00 4,591 92
GENE	RAL BA	LANC	E SHEETDR.		
Construction account				<b>\$301,000 0</b>	) .
Other investments:  146 miles right of way  Terminal grounds and railroad crossi		<b>-</b>		292,000 00 111,500 0	?
Total	_				•
				•	
GENE	RAL BA	LANC	E SHEETCR.		
Capital stock				50,000 0 7,500 0	0
Total					- \$704,500 00

#### DESCRIPTION OF ROAD.

#### Crossings.—Railroad and highway.

What railroads cross your road at grade in this State and at what locality? Michigan Central R. R. at Battle Creek.
Michigan Central Air Line R. R. at or near Burlington.
Chicago & Grand Trunk R. R. at Battle Creek.
Cincinnati, Jackson & Mackinaw R. R. at Battle Creek.
Lake Shore & Michigan Southern R. B. at Coldwater.
Lake Shore & Michigan Southern R. R. at Montgomery.

# STATE OF MICHIGAN, } ss.

J. W. Boynton, president, and M. C. Dority, secretary, of the Central Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. B.] Signed, J. W. BOYNTON, President.

M. C. DORITY, Secretary.

Subscribed and sworn to before me this 29th day of March, A. D. 1897.

CRETTON J. POST, Notary Public in and for Kent Co., Mich.

OF THE

# CHICAGO, DETROIT & CANADA GRAND TRUNK JUNCTION RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed April 8, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CHAS. M. HAYS, Montreal, Que.
Vice President, JOHN BELL, Bellsville, Ont.
Secretary. CHAS. PERCY, Montreal, Que.
Accountant, J. H. MUIR, Detroit, Mich.
General Manager, CHAS. M. HAYS, Montreal, Que..
Superintendent, A. B. ATWATER, Detroit, Mich.
Engineer, GEO. MASSON, Detroit, Mich.
General Traffic Manager, GEO. B. REEVE, Montreal, Que.
General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Que.
Assistant Passenger and Ticket Agent, E. H. HUGHES, Chicago, Ill.
General Freight Agent, J. W. LOUD, Montreal, Que.
First Assistant Freight Agent, DAVID BROWN, Chicago, Ill.
Attorney, E. W. MEDDAUGH, Detroit, Mich.

### DIRECTORS.

CHAS. M. HAYS, Montreal, Que.
JOHN BRLL, Belleville, Ont.
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
CHAS. PERCY, Montreal, Que.
Terms expire September, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 18, 1858.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date: \$200.

Date of annual meeting of stockholders: Last Wednesday in September.

Fiscal year of company ends December 3i.

General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$233,513 91
Total expenses including taxes	\$288,821 90	
Net deficit	\$55,307 99	
Interest on funded debt	)	
	109,500 00	
Balance for the year deficit	\$164,807 99	
Items not included in above as follows:		
Rents		\$2,840 84
Contribution from Grand Trunk B'y towards interest liabilities, deficit		\$161,967 15

# ANALYSIS OF CAPITAL STOCK

ANALYSI	B OF CA	PITAL STOCK.			
Amount authorised by charter or articles of Par value of shares. Number of shares issued. Amount paid in o common	associati	on	10,950	\$100 00	\$1,095,000 00
Amount paid in on common				978,984 67	•
Total amount paid in as per books of the	_	-			•
Paid in per mile of road owned by company	, 59.87 mil	les			16,489 55
A WAT WOTE	ושת שח ם	BT ACCOUNTS.			:
ANALISM	OF DE	BI ACCOUNTS.			
	FUNDED 1	DEST.			
Class, character and date of issue.	Rate of interest.	When due.	When	payable.	Amount outstanding,
First mortgage bonds, June, 1864.  Bond exchangeable for stock within ten years from 26 June, 1883.	6% 5%	June, 1884		n, Eng	\$1,095,000 00 691,141 46
	1 02				
Total funded debt					\$1,786,141 46
•	RECAPITUI	ATTON.			
Total funded debt					\$1,786,141 46
Total debt liabilities					
Amount of debt liabilities per mile of road, Total amount of stock and debt	, 59.37 mile	98			30,084 92 2,765,126 13 46,574 47
		CE SHEET.—Dr.			
Construction account					
Total				·	\$2,765,126 13
GENERAL	BALANO	CE SHEET.—Cr.			
Capital stock				\$978,984 67 1,786,141 46	
Total					\$2,765,126 <b>13</b>
Operated by the Grand Trunk Railway Co.,			•	8.	
COST OF F	ROAD AN	D EQUIPMENT.			
Total cost for construction and equ		•		t by compa	ny.
Total expended for construction and equipm Average cost per mile of road (not including Proportion of cost for Michigan	nent g sidings)	, 59.37 miles			\$2,765,126 13 46,574 46 46,574 46
Equipment furnished by the lessees.					
ANALYSIS OF EAR	NINGS.—I	N STATE OF MI	CHIGA	N.	
PAS	SENGER E	arnings.			
Main line and branches: Local fares Through fares			<del>-</del>	\$66,069 51 56,629 87	ŧ
Total passenger fares					
				\$122,699 38	<b>,</b>
Express and baggage	<b></b>		<b>-</b>	\$122,699 38 10,834 78 9,749 60	
Mails  Total passenger department earnings.			<b>-</b>	10,834 78 9,749 60	

FREIGHT BARNINGS.	
Main line and branches:       •         Local traffic'       \$82,230 21         Through traffic       21,999 99	
Total traffic	
Total freight department earnings	\$90,230 20
Per train mile         \$0.96           Per mile of road         1,519.76	
Total transportation earnings, entire line Transportation earnings per mile of road	\$288,513 91
Total	\$283,513 91
Total earnings from operation of road	\$233,513 91 233,518 91
	2,840 84
Total income from all sources.	\$236,854 75
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$21,338 66 1,968 59
Renewals of ties	7,479 31 1,819 06
Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures	1,648 51 2,502 97
Total	\$36,747 10
MAINTENANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of shop, machinery and tools. Stationery and printing. Other expenses.	\$1,169 80 28,292 07 20,225 22 17,453 17 3,887 79 41 50 1,688 55
Total	\$72,758 10
CONDUCTING TRANSPORTATION.	
Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service Station service Loss and damage Injuries to persons Advertising. Outside agencies Rents for tracks, yards and terminals Stations yards and terminals Other expenses	\$42,884 £8 30,535 83 2,405 75 2,377 34 22,405 64 22,425 67 16,025 77 16,025 77 16,35 77 3,222 81 79 00 2,000 00 6,900 00 2,667 06 552 57
Total	\$163,929 73
GENERAL EXPENSES.	
Salaries of general officers. Salaries of clerks and attendants Insurance. Law expenses. Stationery and printing (general offices). Taxes.	\$500 00 1,500 00 2,322 24 1,500 00 900 00 9,264 78
Total	\$15,386 97

792

CHICAGO, DEIROII & CANADA G. I. JUNCTION RAILWAI	CO. 41
RECAPITULATION OF EXPENSES.	
Per cent of expenses.	
Maintenance of way and structures. 12.72 Maintenance of equipment. 25.20	\$36,747 10 72,759 10
Conducting transportation 56.76	163,929 78
General expenses, including taxes 5.32	15,886 97
Total operating expenses and taxes	\$288,821 90
Operating expenses and taxes per mile of road\$4,864.78	
Operating expenses and taxes per train mile run for trains earning revenue, 291.766 miles. 98.991	
Proportion of operating expenses and taxes for Michigan	\$288,821 90 288,821 90
Total proportion of expenses for Michigan Per centage of expenses to earnings 110.84	
Net earnings per mile of road	3,933 20 80
ver carmings her state mine	
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Detroit Junction to Fort Gratiot, November, 1859.	
HAIN LINE.	
	Miles.
In Michigan, from Detroit Junction to Fort Gratiot	59.87
Total length completed.	59.37
Total length of road belonging to this company in Michigan.	59.87
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company computed as single	26.58
track.	85.90
Gauge of track, 4 feet 8% inches.	
Number of bridges and trestles in Michigan.	
	Aggregate
	length, feet.

### Draw bridges in Michigan.

How many on your line?

Where located, when built and length of draw span? Near Port Huron, built in 1859. Length of swing 123 feet.

Character of structure? Swing draw.

Material of which constructed. Iron and stone.

Height above water, and depth of water under bridge. Height, 14 feet; depth, 12 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Straight.

Do you require all trains to some to a full stop before crossing a draw, and how are they signaled? Yes; by semaphore.

# Crossings-Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Detroit & Bay City R. R. at Detroit.
Detroit, Grand Haven & Milwaukee R. R. at Detroit.
Belt Line R. R. at Detroit.
Port Huron and South Western R. R. at Port Huron.
Chicago & Grand Trunk R. B. near Port Huron.
Flint & Pere Marquette R. R. at Port Huron.
Port Huron and North Western R. R. at Port Huron.

At what crossings are interlocking and derailing switches in operation?	
Woodward Avenue and Belt Line R. R. at Detroit, and at Chicago & Grand Trunk R'y Ju Port Huron.	inction near
What pattern or patterns have you adopted? Union Switch & Signal Co.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	90 28
Are your frogs and guard rails blocked as required by act 174, session laws of 1883. Yes.	
How are they treated? Filled with wood planking. Stations.	
Number of stations on whole line	12 12
Employés.	
• •	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	827 327
Classify your employés as per following list:	Number.
Baggagemen Brakemen	9 20
Conductors Engineers	20 14 25 25 56 38
Firemen	25
LaborersYardmen	56 28
Others	140
REPAIRS AND RENEWALS.	
Fencing in Michigan.	400 84
How many miles of fencing have you	122.74
Road bed and track.	
Number of track sections in Michigan	12
Average length of sections, miles  Average number of men in each section gang.	5
Number of new ties put in whole line during the year	17,830
Number of new ties put in track in Michigan	17,330 299
•	
ROLLING STOCK.	
Are your freight cars being equipped with automatic couplers as required by act No. 147, see 1885, as amended by act No. 88, session laws of 1887? Yes.	ssion laws of
What pattern or patterns have you adopted for use?  Jamey and Gould.	
How are your passenger cars heated? Baker heater and steam.	
MILEAGE, TRAFFIC, ETC.	
Train mileage.	All in Michigan.
Miles run by passenger trains during the year	191,595 67,059 33,112
Total mileage of trains earning revenue	291,766
Passenger traffic.—Road all in State of Michigan. Number. Miles.	Rate.
Number of through passengers carried, earning revenue	
Total number of passengers carried, earning revenue 221,500	
Number of passengers carried one mile         5,160,109           Average distance carried         23.30	
Average amount received from each passenger	\$0 55.395
Average receipts per mile for through passengers Average receipts per mile for local passengers.	02.845 02.406
Average receipts per passenger per mile for all passengers  Estimated cost of carrying each passenger one mile. Cannot state.	02.378

# Freight traffic.—Road all in State of Michigan.

Number of tons of through freight carried, earning revenue	Tons. 36,742 230,405	Miles.	Rate
Total tons of freight carried earning revenue	267,147		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight		2,094,387 5,218,687 7,308,024 57.00 22.68	
Average ton haul for all freight  Average amount received for each ton haul			\$0 83.78 01.836 01.194 01.235

# FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN. .

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:	00 700	0.405	00 107	10.05	
Grain Flour	28,760 12,230	3,427 122	32,187 12,352	12.05 4.68	
Other mill products	904	55	959	.86	
Нау	29,621	797	30,418	11.39	
Tobacco	189 2,774	22 1,252	211 4,026	.08 1.51	
Products of animals: Live stock	20,490	605	. 91 00K	7.86	
Dressed meats	20,480	514	21,095 524	.20	
Other packing house products Poultry, game and fish	8ŏ	1	81	.01	
Poultry, game and fish	130	20	150	.05	
Wool	47 225	152	47 377	.02 .14	
Products of mines:	4 040	10.980	15 770	5.90	
Anthracite coal Bituminous coal	4,819	1,586	15,779 1,586	5.90 .59	
Coke	567	241	1,808	.30	
OresStone, sand and other like articles	175 24,575	35 1,218	210 25,793	.09 9.66	
Products of forest:					
Logs	19,741	3,156	22,897	8.60	
Shingles	10,121	0,100	22,001	0.00	
Manufactures: Petroleum and other oils	1,090	1,950	8,040	1.14	
Sugar	325	892	1,217	.46	
Iron, nig and bloom	276	238	514	.20	
Iron and steel rails Other castings and machinery	58 2,948	103 555	161 3,503	.06 1.31	
Bar and sheet metal	166	108	274	.10	
Cement, brick and lime	2,895	844	8,789	1.40	
Agricultural implements	579	235	814	.30	
Wagons, carriages, tools, etc.	98 610	55 38	153 648	.05 . <b>24</b>	
Wines, liquors and beers Household goods and furniture	356	394	750	.28	
Merchandise	11,048	6,534	17,582	6.58	
Miscellaneous: Other commodities not mentioned above	9,100	56,202	65,302	24.44	
Total tonnage	174,836	92,311	267,147	100.00	

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The railway company does its own express business.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 59.37 miles; Western Union Telegraph Company.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transportation Co	Chicago, Ill.	3 52 57 96
		1
Chicago Refrigerator Car Co. Cottolene Refrigerator Co. Commerce Despatch Line Cudahy Milwaukee Refrigerator Line. Detroit Iron Furnace Co.	Chicago, Ill	42 8 34 14
Eureka Transportation Co Freeman Bros. Hammond Refrigerator Line	Pontiac, Mich	20 12 80 43
Lipton Refrigerator Line Leonard & Daniels Manhattan Oil Co. Merchants' Despatch Line Morris Coal & Transportation Company.	Piqua, Ohio Lima, Ohio New York, N. Y.	3 25 9 03 35 48
National Despatch Line	St. Albans, Vt	109 23 67 91 51
Streets' Stable Car Lines Swift Refrigerator Line Southern Despatch Lumber Line Sun Oil Co.	Chicago, Ill. Louisville, Ky.	1 28 3 38
Union Tank Line. Union Refrigerator Transit Co. White Star Transportation Co. Western Rolling Stock Equipment Co.	St. Louis. Mo.	4 69

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

July 22, N. Holman, flagman, W. Detroit. Struck by train; carelessness. September 9, H. Young, citizen, Detroit. Struck on crossing; lack of caution. November 11, Thomas Brown, messenger, Port Huron. Fell from train; carelessness. December 28, H. Lougheed, boy, W. Detroit. Treepasser; carelessness.

#### INJURED

January 10, Alonzo Hock, Laborer, W. Detroit. Trespasser; carelessness.
June 10, W. Fletcher, brakeman, W. Detroit. Slipped in front of train; lack of caution.
November 21, G. Gabrielson, stockman, Port Huron. Trespasser; carelessness.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes of accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.
Falling from trains		1			i	
Highway crossings Miscellaneous Trespassers on tracks		1	1			2
Total		2	2		1	2

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	4
Number of persons injured during the year	8
Trespassers or tramps killed or injured.	3

#### CLASSIFCATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Not classified above	2	1	1 2
Total	2	1	8

# STATE OF MICHIGAN, ss. County of Wayne,

Almon B. Atwater, superintendent, and James H. Muir accountant, of the Chicago, Detroit & Canada Grand Trunk Junction Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

JAS. H. MUIR.

Subscribed and sworn to before me this 22d day of April A. D. 1897. [L. S.]

LAWRENCE E. LANG, Notary Public, Wayne Co., Mich.

OF THE

# CHICAGO & GRAND TRUNK RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Vice President, WILLIAM J. SPICER, Detroit, Michigan. Secretary, CHARLES PERCY, Montreal, Province of Quebec. Treasurer, JAMES H. MUIB, Detroit, Michigan. General Superintendent, F. H. McGUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Michigan. Assistant Superintendent, A. R. MoINTYRE, Battle Creek, Michigan. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HEBBERT ROBERTS, Fort Gratiot, Michigan. Master Car Builder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant General Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant General Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

CHARLES M. HAYS, Montreal, Province of Quebec.
E. W. MEDDAUGH, Detroit, Michigan.
W. J. SPICEE, Detroit, Michigan.
W. C. BEARDSLEY, Abburn, New York.
F. A. Howe, Chicago, Illinois.
DE. F. SKINNEE, Valparaiso, Indiana.
GEORGE B. REEVE, Montreal, Province of Quebec.
Terms expire 14th April, 1897, or when successors are appointed.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 7th January, 1880.
Number of stockholders at date of last election: 285.
Number of stockholders in Michigan at same date: 18.
Amount of full paid stock held in Michigan at same date: \$169,000.
Date of annual meeting of stockholders: Second Wednesday in April.
Fiscal year of company ends: 31st December.
General offices of the company are located at Detroit, Michigan, and Chicago, Illinois.

GENERAL EXHIBIT.		
·	Debit.	Credit.
Total earnings from operation	\$3,116,894 96	\$3,348,518 00
Net income		\$281,623 04
Interest on funded debt	\$660,000 00 89,196 38 18,945 50	768,141 83
Balance for the year	\$581,518 79- 824,640 15	
October, 1888.  Advances to the Toledo, Saginaw & Muskegon Railway and the Cincinnati,	110,535 88	
Saginaw & Mackinaw Railroad companies in terms of traffic agreements Advanced by the Grand Trunk Railway Company of Canada in terms of traffic	62,620 58	
Advanced by the Grand I runk Ranway Company of Canada in terms of traine agreements.  Deficiency, carried forward to next year.		\$594,139 32 435,175 58
	\$1,029,314 85 ————	\$1,029,814 85
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association		\$6,600,000 00
Par value of shares \$100 00 Number of shares issued 66,000 Amount paid in on common.	<b>\$6,600,000 00</b>	
Total amount paid in as per books of the company		<b>\$6,600,000 00</b>
Paid in per mile of road owned by company, 326.5 miles	•••••	\$20,214 40

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, 1880	6%	1st Jan., 1900	London, England,	\$6,000,000 00
Second mortgage bonds, 1882	5%	1st Jan., 1900	London, England, and New York New York, N. Y	6,000,000 00
Total funded debt				\$12,000,000 00

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous		\$5,293,122 14

# RECAPITULATION.

Total funded debt Total unfunded dept	\$12,000,000 00 5,293,122 14
Total debt liabilities	\$17,293,122 14
Amount of debt liabilities per mile of road, 326.5 miles	52,965 15 23,893,122 14
Stock and debt per mile of road, 825.5 miles	73,179 55

# GENERAL BALANCE SHEET-DR.

Construction and equipment accounts		\$19,560,204 49
Cash items:	\$209,618 64	
Due from agents.	118,199 41	827,818 05
Other assets:  Debit balances from companies and individuals.  Grand Trunk Railway Company of Canada, for interest coupons pledged as		748,627 81
Grand Trunk Railway Company of Canada, for interest coupons pledged as security for advances under traffic agreements	\$2,611,224 37	
security for advances under traffic agreements  Toledo, Saginaw & Muskegon Railway Company, for advances under traffic agreement	103,618 95	
agreement Cincinnati, Saginaw & Mackinaw Bailroad Company, for advances under traffic agreement	108,452 94	
Deficiency carried forward to next year.		2,823,296 26 435,175 58
Total		
GENERAL BALANCE SHEET-CR.		
Capital stock	\$6,600,000 00	
Funded debt	12,000,000 00	\$18,600,000 00
Unfunded debt: Interest unpaid	\$224,656 03	
Notes payable Vouchers and accounts Other liabilities (list as follows):	54,564 77 2,187,144 78	
Other liabilities (list as follows): Salaries and wages (paid in January, 1897)	3,460 35	
Salaries and wages (paid in January, 1897). Grand Trunk Railway Company of Canada, for advances under traffic agreements.	2,611,224 87	
agreements Toledo, Saginaw & Muskegon Railway, interest coupons held for advances under traffic agreement		
under traffic agreement Cincinnati, Saginaw & Mackinaw Railroad, interest coupons held for advances under traffic agreement	108,452 94	
advances under stame agreement		5,293,122 14
Total		\$23,893,122 14
COST OF ROAD AND EQUIPMENT.		
When purchased: 7th January, 1880.		
When purchased: 7th January, 1880.  Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction.  Amount expended since purchase, account of equipment.  Total cost to date of report.  Average cost per mile of road (not including sidings) 328.5 miles.		\$12,889,800 78 5,099,564 37 1,570,839 34 19,560,204 49 59,908 74
When purchased: 7th January, 1880. Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 328.5 miles. Proportion of cost for Michigan		\$12,889,800 78 5,099,564 87 1,570,839 34 19,560,204 49 59,908 74 13,419,558 50
When purchased: 7th January, 1880. Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 326.5 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI		\$12,889,800 78 5,099,564 87 1,570,838 97 19,560,204 49 59,908 74 13,419,558 50
Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction  Amount expended since purchase, account of equipment.  Total cost to date of report.  Average cost per mile of road (not including sidings) 328.5 miles.  Proportion of cost for Michigan		\$12,889,800 78 5,099,564 87 1,870,839 34 19,560,204 49 59,908 74 13,419,558 50
Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction  Amount expended since purchase, account of equipment.  Total cost to date of report.  Average cost per mile of road (not including sidings) 326.5 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings	E YEAR.	\$50,525 61
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment Total cost to date of report. Average cost per mile of road (not including sidings) 328.5 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI	E YEAR.	\$50,525 61 1,772 42
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) \$28.5 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings New cars.  Total charges.	E YEAR.	\$50,525 61 1,772 42 6,200 00 \$58,493 03
Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction  Amount expended since purchase, account of equipment.  Total cost to date of report.  Average cost per mile of road (not including sidings) \$28.5 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings  New buildings.  New cars.	E YEAR.	\$50,525 61 1,772 42 6,200 00 \$58,493 03
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) \$28.5 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings New cars.  Total charges.	E YEAR.	\$50,525 61 1,772 42 6,200 00 \$58,493 03
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) \$26.5 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings New cars  Total charges  Total charges to property account as above. Net addition to property account  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGERASSENGER MARNINGS.	E YEAR.	\$50,525 61 1,772 42 6,200 00 \$58,493 03
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 326.5 miles. Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings. New cars.  Total charges.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIG	E YEAR,  AN.  \$252,444 28	\$50,525 61 1,772 42 6,200 00 \$58,493 03 58,498 03
Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction  Amount expended since purchase, account of equipment.  Total cost to date of report.  Average cost per mile of road (not including sidings) \$28.5 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings.  New buildings.  New cars.  Total charges.  Total charges to property account as above.  Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIG  PASSENGER EARNINGS.  Main line and branches:  Local fares.	AN. \$252,444 25 229,487 84	\$50,525 61 1,772 42 6,200 00 \$58,493 03 58,498 03
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 326.5 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings. New cars  Total charges  Total charges to property account as above. Net addition to property account  ANALYSIS OF EARNINGS.—IN STATE OF MICHIG  Main line and branches: Local fares Through fares	AN. \$252,444 23 229,487 84	\$50,525 61 1,772 42 6,200 00 \$58,493 03 58,498 03 58,498 03
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 326.5 miles. Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings. New cars.  Total charges.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIG  PASSENGEE MARNINGS.  Main line and branches: Local fares. Through fares.  Total passenger fares.	AN.  \$252,444 23 229,487 84  \$32,875 98 47,981 76	\$50,525 61 1,772 42 6,200 00 \$58,493 03 58,498 03 58,498 03

FREIGHT RARMINGS.		
Main line and branches: Local traffic Through traffic	\$530,271 21 1,071,588 44	
Total traffic\$	1,601,859 65	
Total freight department earnings		<b>\$1,601,859 6</b> 5
Per train mile Per mile of road	\$1 07 7,151 16	
Analysis of Earnings.—Entire lines.		
PASSENGER EARNINGS.		
Main line and branches: Local fares Through fares	\$434,466 94 844,281 77	
Total passenger fares	<b>\$7</b> 78 <b>,69</b> 8 71	
Express and baggage Mails Other sources	49,813 <b>9</b> 8 71,972 64 21,837 43	
Total passenger department earnings		<b>89</b> 21,822 76
Per train mile Per mile of road	<b>3</b> 0 83 2,749 49	
FREIGHT EARNINGS.		
Main line and branches: Local traffic Through traffic	\$816,755 86 1.607.382 65	
Total traffic		
Total freight department earnings		2,424,188 51
	\$1.08	212061200 01
Per train mile	7,230 41	
Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation, From rents not otherwise previded for.	9,979 90 99 as follows:	\$3,845,961 27 2,556 78
Total earnings from operation of road		\$8,848,518 00
Total earnings per mile of road. Total earnings per train mile. Proportion of taxable earnings for Michigan. Total taxable earnings per mile of road in Michigan.	\$9,987 53 1 00 2,166,355 26 9,671 28	
Total income from all sources		3,348,518 00
Proportion of income for Michigan		2,166,355 26
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway Renewals of rails Renewals of ties. Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Stationery and printing Total		\$186,957 10 102,722 00 72,075 20 21,056 89 10,496 54 17,196 18 612 72 277 80 \$411,394 88
<del>**</del>		

# MAINTENANCE OF EQUIPMENT.

Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of treight cars. Repairs and renewals of work cars. Repairs and renewals of shop machinery and tools. Stationery and printing. Other expenses  Total.  CONDUCTING TRANSPORTATION. Superintendence. Regine and roundhouse men. Fuel for locomotives. Water supply for locomotives. Other supplies for locomotives. Other supplies for locomotives. Train service. Train service. Train supplies and expenses. Switchmen, flagmen and watchmen. Telegraph expenses Station service. Station service. Station service. Station service. Station service. Hire of equipment. Loss and damage. Injuries to persons. Clearing wrecks.	\$37,297 54 296,884 50 283,238 68 296,884 50 283,238 68 16,140 27 15,173 25 9,142 72 3101,763 96 74,671 24 216,934 05 104,233 59 20,566 02 34,996 27 34,996 27 34,996 27 34,996 27
Adv. rtising Outside agencies Commissions Stock yards and elevators. Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses.	7.401 12 95,666 81 13,160 97 4,145 86 6,990 13 3,587 34 14,802 24 6,355 97
Total	\$1,971,899 24
Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total	11.430 02
RECAPITULATION OF EXPENSES.  Per cent of expenses.	
Maintenance of way and structures 13.20 Maintenance of equipment 15.09 Conducting transportation 63.27 General expenses, including taxes 8.44	\$411,394 38
	\$3,116,894 96
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 3,383,036 miles.  Proportion of operating expenses and taxes for Michigan  Total proportion of expenses for Michigan	9,296 67 2,013,748 65 2,013,748 65
3,363,036 miles and taxes per train mile run, for trains, earning as 3,363,036 miles 93  Proportion of operating expenses and taxes for Michigan 7  Total proportion of expenses for Michigan 93.08  Net earnings per mile of road 93.08  Net earnings per train mile 93.08	690 86

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Port Huron, Michigan, to Chicago, Illinois, 1st February, 1880.

MAIN LINE.	Miles.	Miles.
In Michigan, from Port Huron, Mich., to Michigan and Indiana State line In Indiana, from Michigan and Indiana State line to Indiana and Illinois	224	W1106.
State line In Illinois, from Indiana and Illinois State line to Elsdon, Ill	80. <b>62</b> 21.88	
Total length completed		826.50
Length of double track on main line	20.11	326.50
Total length of road belonging to this company in Michigan	nmerated	224 65.04
Aggregate length of tracks in Michigan belonging to this company, computerack		289.04
Gauge of track, 4 feet 8½ inches.		
Proprietary or leased roads operated by this company.		
Name, description and length of each:		
Grand Trunk Junction Railway, from Elsdon, Ill., to innetion with the	otal miles. I	n Michigan.
Grand Trunk Junction Railway, from Elsdon, Ill., to junction with the Chicago & Western Indiana Railroad.  Chicago & Western Indiana Railroad Company between junction with Grand Trunk Junction Railway and Polk street depot. Chicago, Ill.	3.90 4.87	
Total	8.77	
Total miles operated by this company	325.27	224
Total miles operated by this company		
Number of bridges and trestles in Michigan.		Aggregate
Iron	Number.	length feet. 2.025
Wooden trestles	• 42	1,332
Total	64	8,857
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?	A Green d Three	

What railroads cross your road at grade in this State, and at what locality?
Filit & Pere Marquette B. R. at Tunnel station in Port Huron, at Flint, and at Grand Trunk Junction near Port Huron.
Grand Trunk R'y near Port Huron.
Detroit & Bay City R. R. at Lapeer.
Detroit, Grand Haven & Milwaukee R'y at Durand.
Cincinnati, Saginaw & Mackinaw R. R. at Durand.
Ann Arbor R. R. at Durand.
Detroit, Lansing & Northern R. R. at Trowbridge.
Michigan Central R. R. at Lansing, Charlotte, Nichols and Cassopolis.
Lake Shore & Michigan Southern R'y at Lansing and Schoolcraft.
Cincinnati, Jackson & Mackinaw R. R. at Battle Creek.
Grand Rapids & Indiana R. R. at Vicksburg.

What railroads cross your road either over or under your grade in this State, and where? Under:
Pontiac, Oxford & Northern R. R. near Imlay City.

At what crossings are interlocking and derailing switches in operation?
Grand Trunk Junction, Lapeer, Trowbridge, Lansing, Nichols, Schoolcraft and Cassopolis.

What pattern or patterns have you adopted? Union Switch & Signal Company.

Number of crossings of highways at grade in this State	268 18 18
What pattern or patterns in use? 2 O'Neil, 1 American Signal Co. highway crossing alarm, 1 Morgan, and 9 push button electric skeleton bells worked by flagmen or operator.	
Number of crossings of highways over or under railroad: over, 2; under, 2	4 2
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, Session Laws of 1883? Yes.	
How are they treated?  Hart's patent blocking and plank.	
Stations.	
Number of stations on whole lines.	74
Same in Michigan	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	2, <b>914</b> 1, <b>94</b> 7
Classify your employée as per following list:	Number.
BaggagemenBrakemen.	36 225
Conductors Engineers	100
Firemen	134 184
Laborers	830
Shopmen. Yardmen	92
Others	789
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	456
Road bed and track.	
•	
Number of track sections in Michigan	45 5
Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line and sidings during the year.	5
Number of new ties put in whole line and sidings during the year	204,459 158.342
Average number of new ties per mile of road and sidings	435
New rails put in track: Steel [tons, 10,132], miles	96
Total miles of track laid with new rails	96
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, linear feet	150
Timber culverts replaced during the year:	Number.
With iron pipe.	12
With timber	12

# ROLLING STOCK.

ROLLING STOCK.		
	Number.	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	180	\$974 000 00
Number of passenger cars—12 wheel, including official cars		
Number of passenger cars—8 wheel, including official cars		
Number of express and baggage cars	. 19	
Number of box freight cars		
Number of stock cars.	. 15	
Number of platform cars.	145	
Number of conductors' way cars	. 69	
Other cara.	. 10	15,650 00
Total	430	\$290,650 00
Number of locomotives equipped with power brakes.		180
Number of passenger-train cars equipped with power brakes.  Number of freight cars equipped with power brakes		16
What patterns of power brakes have you in use, and number of locomotives and Locomotives, with Westinghouse air brakes.  Cars, with Westinghouse air brakes.		. 108 . 22
Total		195
Are your freight cars being equipped with automatic couplers as required by Ac of 1885, as amended by act No. 88, session laws of 1877? Yes.  What pattern or patterns have you adopted for use? Gould and Janney.  How are your passenger cars heated? Baker heater (hot water), and steam heat.	et No. 147.	, session laws

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. In	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains.	2,063,6⊌6	664,216 1,375,784 137,515
Total mileage of trains earning revenue	3,363,036	2,177,515
Passenger traffic.—Entire lines. Number	. Miles.	Rate.
Number of through passengers carried, earning revenue 68,600 Number of local passengers carried, earning revenue 1,129,778	3 .	24401
Total number of passengers carried, earning revenue 1,198,384	ļ	
Number of passengers carried one mile 47,545,644 Average distance carried. Average amount received from each passenger Average receipts per mile for through passengers. Average receipts per mile for local passengers. Average receipts per mile for local passengers.	. 39.7	\$0 64.98 01.50 01.77 01.64
Passenger traffic.—In State of Michigan.		
Number of through passengers carried, earning revenue		
Total number of passengers carried, earning revenue 360,38	i	
Number of passengers carried one mile 29,392,42 Average distance carried. Average amount received from each passenger. Average receipts per mile for through passengers. Average receipts per mile for local passengers. Average receipts per passenger per mile for all passengers.	81.6	\$1 88.78 01.49 01.80 01.64

Freight traffic.—Entire lines.	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	1,055,651 632,754		
Total tons of freight carried, earning revenue	1,688,405		
Total mileage of through freight Total mileage of local freight		347, <b>694,281</b> 87 <b>,395</b> ,040	
Total freight mileage or tons carried one mile	· · · · · · · · · · · · · · · · · · ·	435,089,271	
Average ton haul for through freight  Average ton haul for local freight		329.4 138.1	
Average ton haul for all freight		257.7	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight.	. <b></b>		\$1 43.58 00.46 00.98 00.56
Freight traffic.—In State of Michiga	n.		
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	1,055,351 421,836		
Total tons of freight carried, earning revenue	1,477,487		
Total mileage of through freight	······································	231,798,154 58,263,360	
Total freight mileage or tons carried one mile		290,059,514	
Average ton haul for through freight  Average ton haul for local freight		219.6 138.1	
Average ton haul for all freight.		196.3	
Average amount received for each ton haul			\$1 08.42 00.46 00.91 00.65

# FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

# Company's material excluded.

	Freight ceived fre	Freight received from	Total freight tonnage.					
Commodity.	on this road.		Whole tons.	Per cent.				
Products of agriculture:								
Grain	49,984	241,228 30,320	291,212	17.25				
Other mill products	8,382 5,498	23,917	88,702 20,415	2.29 1.74				
Flour Other mill products Hay	29,613	10,163	29,415 39,776	2.36				
TODB000	1 9	341	346 1	.08				
Cotton		13,697	13,697	.81				
Fruit and vegetables Potatoes	14,628 1,625	36,718 4,079	51,346 5,704	3.04 .84				
Products of animals:	4							
Live stock	00'012	258,185	272,948	16.17 7.42				
Other packing house products Poultry, game and fish Wool Hides and leather	52,413	31,488 15,308	125,308 67,721	4.01				
Poultry, game and fish	2,762	6,354	9,116	.54				
Wool	399	653	1,052	.08				
	1,277	21,916	23,193	1.87				
Products of mines:	90	101 000	104 070	a 00				
Anthracite coal	100	104,888 16,281	104,978 16,881	6.22 .97				
Coke	1 1	894	895	.05				
Orea		1,351	· 895 1,351	.08				
Ores Stone, sand, and other like articles Salt	1,446 24	25,113 10,590	26,559 10,614	1.57 .63				
Products of forest:								
Lumber	12,590	72,700	85,290	5.05				
LogsShingles	2,941 1,399	6,198 8,077	9,139 9,476	.54 .56				
Manufactures:								
Petroleum and other oils	1,002	6,282	7,284 16,722	.43				
Sugar	61	16,661 918	16,722	.05				
Naval stores Iron, pig and bloom	765	5.315	6,080	.00				
Iron and steel rails.	111	7.465	7,576	.45				
Other castings and machinery	2.945	7,087 1,508	10,032	.60				
Bar and sheet metal	515	1,508	2,028	.12				
Cement, brick and lime Agricultural implements	1,817 8,224	6,215 2,588	8,032 5,812	.36 .45 .60 .12 .48				
Wagons, carriages, tools, etc.	5,915	1,891	7,806	.47				
Wagons, carriages, tools, etc. Wines, liquors and beers	238	3,715	3,958	.47 .28 .28				
Household goods and furniture	1,997	2,771	4,768	.28				
Merchandise	39,508	92,088	181,586	7.79				
Miscellaneous: Other commodities not mentioned above	81,028	160,626	241,649	14.81				
Total tonnage	432,871	1,255,584	1,688,405	100.00				

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

# Company's material excluded.

0	Freight originating	Freight re- ceived from connecting	Total freigh	t tonnage.
Commodity.	on this road. Whole tons.	roads and	Whole tons.	Per cent.
Products of agriculture:	44 700	000 007	044 555	
Grain Flour	41,520 7,089	200,035 24,902	241,555 81,991	16. <b>35</b> 2.17
Other mill products	4,156	19,926	, 24,082	1.63
Other mill products	24,960	8,468	33,418	2.26
Cotton Fruit and vegetables.		10,976	10,976	.74
Fruit and vegetables Potatoes	11,630 1,328	30,724 3,328	42,354 4,656	2.87 .82
Products of animals:	10.500			
Live stock	12,768 98,815	256,875	269,638	18.25 8.48
Dressed meats Other packing house products Poultry, game and fish	52,413	31,488 15,308	125,303 67 721	0.50 4.58
Poultry, game and fish	2,241	4,982	67,721 7,228	.49
Wool Hides and leather	250	521	7 771	.05
Hides and leather	996	19,362	20,358	1.87
Products of mines:		0= 000		
Anthracite coalBituminous coal	75	87,392	87,467	5.92
Coke	83	13,281 727	13,364 728	.91
Oraa		1,079	1,079	.07
Ores Stone, sand, and other like articles	1,162	20,283	21,445	1.4
Salt	19	8,191	8,210	.56
Products of forest:	40 505	FO 700		4 54
Lumber Logs	10,795 2,407	59,582 6,198	70,377 8,605	4.76 .58
Shingles	1,160	7,082	8,242	.56
Manufactures: Petroleum and other oils	830	4 700	F FE0	06
Sugar		4,728 12,392	5,558 12,442	.36 .84
Naval stores		747	747	.06
Iron, pig and bloom.	660	4.128	4,788	.32
Iron, pig and bloom	93	5,922	6,015	.41
Other castings and machinery	2,490	5,523	8,013	.54
Bar and sheet metal	415	1,129	1,344	.11
Cement, brick and lime	1,494 2,656	1,050 2,019	2,544 4.675	.1
Wagons, carriages, tools, etc.	4,980	1,523	6,503	.44
Wagons, carriages, tools, etc	190	2,492	2,682	:18
Household goods and furniture	1,662	2,163	3,825	.26
Merchandise	32,785	80,726	118,511	7.68
Miscellaneous:				
Other commodities not mentioned above	67,235	137,842	205,077	13.88
Total tonnage	384,398	1,093,094	1,477,487	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

National Express Company pays \$50 per day for local business averaging 7,000 lbs per day; also \$70.48 per day for through business averaging 14,000 lbs. per day. Annual payment for through and local business to be not less than \$40,000. Freight taken at trains.

#### Telegraph.

Number of miles of talegraph on your road, and to whom does it belong? Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Name of company.	General office.	Amount paid.
Wagner Palace Car Co	New York, N. Y. (On mileage basis) Chicago, Ill. (On mileage basis)	\$234 50 34,780 78
Total		\$35,015 28

Both these companies get the fares for seats and berths.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

January 11, Horace Pratt, trespasser, Flint. Walking on track; his carelessness; inquest "Company exonerated." January 12, Wm. Donoghue, brakeman, Nichols. Caught between cars; accidental; inquest, "Com-

pany exonerated."
February 19, A. Cannon, brakeman, Marcellus. Bear cell islement of inquest, "Company exonerated."
June 30, Isaac T. Barton, trespasser, Battle Creek. Walking on track; inquest, "Company exonerated."
July 15, S. Bombonnais, sectionman, Goodell's. Walking on track; inquest, "Struck by cars," intoxicated.

August 11, unknown man, Haslett Park. Stealing a ride; inquest, "Company exonerated."
October 14, B. B. Sprowl, laborer, trespasser, Flint. His carelessness; No inquest.

# INJURED.

July 4, Fred Robinson, citisen, Edwardsburg. Highway collision; lack of caution.
September 12, Jacob Detwiler, brakeman, Nichols. Coupling; lack of caution.
September 25, W. Hutchinson, trespasser, Durand. Fell from train; lack of caution.
October 4, O. D. Glove, fireman, Imlay City. Jumped off engine; lack of caution.
October 27, W. H. Finch, yard brakeman, Durand. Four toes run over; lack of caution.
December 8, P. J. Cloughesy, Tunnel Junction. Fell from train; lack of caution.
December 17, Andrew Downey, tramp, Charlotte. Stealing a ride and fell from train; lack of caution. 8

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

()		Killed.			Injured.	
Causes of accident.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others
Collisions		1				
Coupling cars. Falling from trains					i	
lighway crossings fiscellaneous respassers on trains		2	1		1	
Prespassers on tracks			3			
Total		3	4 4	l	4	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	7
Number of persons injured during the year	7
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness or misconduct	13
Persons killed or injured while intoxicated.	. 1
Trespassers and tramps killed or injured	6

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED AND INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Trainmen Laborers	2	3 1	5 1 1
Total	. 3	4	7

# STATE OF MICHIGAN, as. County of Wayne.

Almon B. Atwater, superintendent, and James H. Muir, treasurer, of the Chicago and Grand Trunk Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December. A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

A. B. ATWATER. JAS. H. MUIR.

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

LAWRENCE F. LANG, Notary Public, County of Wayne.

# ANNUAL REPORT

#### OF THE

# CHICAGO, KALAMAZOO & SAGINAW RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed May 1, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, E. WOODBURY, Kalamazoo.
Vice President, J. H. DEWING, Kalamazoo.
Secretary, H. C. POTTER, Kalamazoo.
Auditor, H. C. POTTER, Kalamazoo.
'Treasurer, H. C. POTTER, Kalamazoo.
General Manager, J. H. DEWING. Kalamazoo.
General Superintendent, L. SERGEANT, Kalamazoo.
General Presight Agent, H. C. POTTER, Kalamazoo.
General Freight Agent, H. C. POTTER, Kalamazoo.

# DIRECTORS.

E. WOODBURY, Kalamazoo, Mich.
J. H. DEWING, Kalamazoo, Mich.
JAMES MONEOB, Kalamazoo, Mich.
O. M. ALLEN, Kalamazoo, Mich.
B. A. BUSH, Kalamazoo, Mich.
LEWIS H. WITHEY, Grand Rapids, Mich.
ALFRED E. WATSON, Hartford, Vt.
Terms expire September 14, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 7, 1883. Amended December 10, 1887. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$449,900. Date of annual meeting of stockholders: Second Tuesday in September. Fiscal year of company ends: December 31. General offices of the company are located at Kalamazoo, Mich.

#### GENERAL EXHIBIT.

Total earnings from operation	Debit.	Credit. \$52.110 51
Total earnings from operation Total expenses, including taxes	<b>\$84,436</b> 56	V-7-1-0-0-1
Net income		\$17,678 95
Interest on funded debt	14,368 52	
Balance applicable to dividends	•••••	\$8,805 48
Items not included in above, as follows: Paid on unfunded debt	3,805 43	

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association.	\$2,000,000 00
Par value of shares       \$100 00         Number of shares issued       4,500         Amount paid in on common       \$450,000 00	
Total amount paid in, as per books of the company	\$450,000 00
Paid in per mile of road owned by company, 44.20 miles	10,181 00

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

\$225,000 00 first mortgage, 65, 5 year bonds, authorized to be issued by the Union Trust Co., of Detroit, as trustee, but said bonds have not been sold and are in the hands of the company.

	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liquidate	ed.	Amount.
For miscellaneous	To be funded and paid from earnings		\$529,175 89
	RECAPITULATION.		
Total debt liabilities	e of road, 44.20 miles		\$529,175 89 11,972 27 979,175 89 22,158 27
G	ENERAL BALANCE SHEET.—Dr.		
Cash items:	ount	\$1,929 18	\$902,514 40
		67,925 00 2,407 43	72,261 61
Other assets:  Materials and supplies  Debit balances from companies	and individuals		1,166 36 3,233 02
Total			979,175 89
G	ENERAL BALANCE SHEET.—Cr.		
	••••••••••••		\$450,000 00
Unfunded debt: Notes payable Vouchers and accounts Other liabilities (list as follows):		96,175 00 31,958 18	
Taxes for 1896		1,042 21	
Total			979,175 39
C	OST OF BOAD AND EQUIPMENT.		
	PURCHASED BY PRESENT COMPANY.		
Original cost to present company, Amount expended since purchase,	Construction Co., January 1, 1896. of road and equipment		\$900,000 00 1,714 40 800 00
Total cost to date of report			\$902,514 40
Average cost per mile of road (no	t including sidings), 44.20 miles		20,418 87

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.		
Extensions and new sidings		\$1,510 76 208 64 800 00
Total		82,514 40
Total charges to property account as above  Net addition to property account		2,514 40 2,514 40
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	N.	
PASSENGER EARNINGS.		
Main line and branches: Local fares Through fares	\$15,707 86 1,870 78	
Total passenger fares	\$17,578 64	
Express and baggage Mails Other sources	870 42 1,928 60 226 40	
Total passenger department earnings		\$20,639 06
Per train mile Per mile of road	\$0 36.1 466 94	
FREIGHT EARNINGS.		
Main line and branches: Total traffic. Other sources—freight department.	\$81,225 04 246 41	
Total freight department earnings		81,471 45
Per train mile Per mile of road	\$1 18 712 02	
Total transportation earnings, entire line		\$52,110 51
Transportation earnings per mile of road	1,178 97 61.3 1,178 97 61.3	52,110 51
Proportion of income for Michigan		\$52,110 51
A MAY WOLD OF BY DENGERO		
ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.		
Total		\$6,480 58
V	•	
MAINTENANCE OF EQUIPMENT.  Total		3,163 28
		3,200 00
CONDUCTING TRANSPORTATION.		
Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives. Train service. Train supplies and expenses. Switchmen, flagmen and watchmen Telegraph expenses Station service. Station supplies Switching charges—balance Car mileage—balance Loes and damage Advertising Outside agencies. Stationery and printing		4,485 98 112 28 245 80 6,387 29 94 16 705 04 147 33 4,120 97 248 32 780 59 799 66 17 00 85 25 73 45 276 17
Total		\$18,459 29

# GENERAL EXPENSES.

Salaries of general officers. Salaries of clerks and attendants.		\$3,300 00 1,442 25
General office expenses and supplies Insurance		397 20 101 80
Stationery and printing (general offices)		50 00 1.042 21
Taxes	••••••	
Total		\$6,338 46
RECAPITULATION OF EXPENSES.	Per cent o	t
Waintenance of man and structures	expenses. 18.8	<b>66</b> 490 89
Maintenance of way and structures Maintenance of equipment	9.2	96,480 58 8,168 28
Conducting transportation	58.6 18.4	18,459 29 6,888 46
Total operating expenses and taxes.	•••	\$84,436 56
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 84.894 miles.	779 10	
Operating expenses and taxes per train mile run, for trains, earning revenue,	40.5	
Total proportion of expenses for michigan		34,436 56
Percentage of expenses to earnings, 66%.  Net earnings per mile of road		399 86
Net earnings per train mile	20.8	555 55
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Kalamazoo to Woodbury, September 1, 1899.		
MAIN LINB.		
In Michigan, from Kalamazoo to Woodbury		Miles. 44.20
Total length completed		44.20
Aggregate length in Michigan of sidings, spurs and other tracks not above ent Aggregate length of tracks in Michigan belonging to this company, compute track.	merated d as single	4.09 48.29
Gauge of track, 4 feet 8½ inches.		
Number of bridges and trestles in Michigan.		Aggregate
Wooden bridges	Number. 38	length, feet. 1,430
Crossings.—Railroad and Highway.		
What railroads cross your road at grade in this State, and at what locality? C., J. & M. B. R. at Richland Junction. M. C. B. R. at Hastings. L. S. & M. S. R. R. at Kalamazoo.		
At what crossings are interlocking and derailing switches in operation?		
What pattern or patterns have you adopted? Gavit Int. S. & S. Co. Union S. & S. Co.		
Number of crossings of highways at grade in this State	_	6 <u>4</u> 1
Are your frogs and guard rails blocked as required by act 174, session laws of 1 Yes.	.8847	
How are they treated? Wood. Stations.		
Number of stations on whole lines		12

# Employés.

Number of persons regularly employed on all roads operated by company officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers Yardmen Others		52 52 Number. 1 1 2 2 2 3 21 2 21
REPAIRS AND RENEWALS.		
Fencing in Michigan.  How many miles of fencing have you?		87
Road bed and track.		
Number of track sections in Michigan		7.
Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in track in Michigan.		5,000 ======
ROLLING STOCK.		
Number of locomotives of more than 30 tons weight, exclusive of tender		resent esti- nated value. \$21,000 00
Total		
10041		
Number of passenger care—8-wheel, including official cars	2	\$4,000 00
Number of express and baggage cars. Number of box freight cars.	2 2	2,100 00 900 00
Number of platform cars	10	2,000 00
Number of platform cars	.1	150 00
Other cars	15	<b>85</b> 0 00
Total	82	\$30,500 00
		<del>-</del>
Number of locomotives equipped with power brakes		1
What patterns of power brakes have you in use, and number of locomotives an Westinghouse—9.	d cars with	ech?
How are your passenger cars heated? Steam from locomotives.		
MILEAGE, TRAFFIC, ETC.		
Train mileage.		All in
		Michigan.
Miles run by passenger trains during the year		57,084
Miles run by mixed trains.		27,810
Total mileage of trains earning revenue		84,894
Passenger Traffic.—In State of Michigan.		
Number.	Miles.	Rate.
Number of through passengers carried, earning revenue	MIIIes,	nave.
Total number of passengers carried, earning revenue		
Number of passengers carried one mile 684,179		
Average distance carried.	16.61	<b>ac</b> 10
Average distance carried. Average amount received from each passenger. Average receipts per mile for through passengers.		\$0 43 02.7
Average receipts per mile for local passengers		02.6
Average receipts per passenger per mile for all passengers		02.6

Theorem t	ton Ma.	 Otata.	nf.	Michigan

Freight traffic.—In State of Michiga	476.		
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 42,068 18,706	Miles.	Rate.
Total tons of freight carried, earning revenue	60,774		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight		16.01	
Average ton haul for all freight		17.98	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.			\$0 51 08 02.2 02.8

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# Company's material excluded.

0	Freight originating	originating	inating connecting	eight ceived from	from cting	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.		
Products of agriculture:	9 501	324	9 398	4.65		
Grain}	2,501 146	324	2,825 146	.24		
Plour Other mill products	836	11	847	1.39		
HayFruit and vegetables	24	20	44	.07		
Products of animals: Live stock	1,094 42	65	1,094 107	1.80 .18		
Products of mines: Anthracite coal Bituminous coal Stone, sand and other like articles. Salt	2,565	27,214 9 15	27,214 2,574 15	44.78 4.23 .09		
Products of forest: Lumber	930	3,229	4,169	6.86		
Manufactures: Petroleum and other oils Iron, pig and bloom Other castings and machinery. Cement. brick and lime. Agricultural implements Household goods and furniture.	91 12 1.812	. 31 384 90 434 64	31 425 102 2,246 163 855	.05 .70 .17 3.69 .27		
Merchandise	4,760	2,395	7,155	11.77		
Miscellaneous: Other commodities not mentioned above	6,064	4,698	10,762	17.71		
Total tonnage	21,831	38,943	60,774	100.00		

# ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Take freight at depot.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Forty-five miles, owned by company; operated with telephones.

STATE OF MICHIGAN, }88.

J. H. Dewing, general manager, and H. C. Potter, secretary, of the Chicago, Kalamasoo & Saginaw Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1996, to the best of their knowledge and belief.

[L. S. OF R. R.]

J. H. DEWING. H. C. POTTER.

Subscribed and sworn to before me this 30th day of April, A. D. 1897.

MARINUS SCHRIBE, Notary Public.

#### ANNUAL REPORT

OF THE

# CHICAGO, MILWAUKEE & ST. PAUL RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed May 17, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ROSWELL MILLER, Chicago.

Vice President, FRANK S. BOND, New York.

Secretary, P. M. MYERS, Milwaukee.

General Auditor, W. N. D. WINNE, Chicago.

Treasurer, F. G. RANNEY, Chicago.

Second Vice President and General Manager, A. J. EAELING, Chicago.

General Superintendent, W. G. COLLINS, Chicago.

Assistant General Superintendent in Michigan, W. J. UNDERWOOD, Milwaukee.

Division Superintendent in Michigan, R. R. MINTURN, Green Bay.

Chief Engineer, D. W. WHITTEMORE, Chicago.

Superintendent of Telegraph, U. J. FRY, Milwaukee.

General Passenger and Ticket Agent, G. H. HEAFFORD, Chicago.

General Freight Agent, J. H. HILAND, Chicago.

General Counsel, Geo. R. PECK, Chicago.

# DIRECTORS.

PHILIP D. ARMOUR, Chicago.
AUGUST BELMONT, New York.
FRANK S. BOND, New York.
CHARLES H. COSTER, New York.
CHARLES D. DICKEY, JR., New York.
PRIBE GEDDES, New York.
FREDERICH LAYTON, Milwaukee.
JOSHPH MILLBANK, New York.
ROSWELL MILLER, Chicago.
J. M. MCKINLAY, New York.
WM. ROCKEFELLER, New York.
SAMUEL SPENCRE, New York.
A. VANSANTVOORD, New York.
Terms expire September, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 5, 1863.

Number of stockholders at date of last election: 4,766.

Number of stockholders in Michigan at same date: 14.

Amount of full paid stock held in Michigan at same date: \$56,100.00.

Date of annual meeting of stockholders: September.

Fiscal year of company ends June 30.

General offices of the company are located at Chicago, Ill.

GENERAL EXHIBIT.	Debit.	Credit.	
Total earnings from operation Total expenses, including taxes			67
Net income		\$11,837,302	29
Interest on funded debt	7,578,104 01		
Balance applicable to dividends.		\$4,314,198	28
Dividends declared, 7 per cent preferred	3,713,268 44		
Balance for the year		600,929	84
Balance (profit and loss) last year		8,031,481	64
Items not included in above, as follows: Income from other sources. Less other deductions	\$302,577 67 229,830 00	\$8,682,411 72,747	
Balance forward to next year		\$8,705,159	
ANALYSIS OF CAPITAL STOCK.			
Par value of shares       \$100 00         Number of shares issued       73,313,161         Amount paid in on common       \$4         Amount paid in on preferred       2	6,027,261 00 7,285,900 00	}	
Total amount paid in as per books of the company		- \$73,813,1 <b>6</b> 1	00
Paid in per mile of road owned by company, 6,150.75 miles	• • • • • • • • • • • • • • • • • • • •	11,919	39

# ANALYSIS OF DEBT ACCOUNTS. FUNDED DEBT.

	Tir.	Time.			Interest	est	
Description of bonds.	Date of issue	When due.	Amount outstanding.	Rate.	When payable.	Amount ac- crued during the year.	Amount paid during the year.
o Iowa & Minnesota division	1887	1807	\$1.736.000 00	7 per cent.		\$146.790 00	8
Prairie du ! bien division,	1867	1808	8,674,000 00		F.b. and Aug.	288,920 00	8
a Prairie du Chien division, 2d mortgage	1867	886	1,106,000 00	7.8 ::	:	82,052 00	8
Chicago & Milwaukee	1873	88	2,383,000	: :	Jan. and July.	167,510 80	8
ad St. Faul (or Rivar) division. Starling	1872	33	2,000,000	:		35,83	38
a love & Dalota division	200	180	431,000 00	:	:	38	25
	1872	1503	000.08	: :	: :	9083	8
~	1874	36	186,000 00	::	::	13,020 00	8
a Consolidated mortgage.	1875	3	28,000 00	::	::	98,086	88
a lowa & Dalrota division artension	1878	3	2,506,000,000	:	:	25.25	38
	1880	0161	5,680,000 00	: :	:	397,600 00	8
Hastings & Dakota division extension	1880	1910	00 000 086	:	:	49,500 00	8
	18.9	8	8,00,00	::	::	20,000,000	2
Chicago & Davids division	1880	80	900,000,000	::	: : : :		28
Chicago & Pacific Western division	1881	1871	25.340.000.00	:	:	1.267.000 00	3
Southern Minnesota di	1880	1910	7,432,000 00	:	:	445,920 00	Si Si
Mineral Point division.	1880	0161	2,840,000 00	::	::	142,000 00	8
Dubuque division	285	33		::		96.	38
Wisconsin & Minnesota	1881	1851	4.755.000	:	:	287.782	3
d Chicago & Lake Superior division	1881	1261	1,360,000 00	:	:	88,000,00	2
	1886	886	3,080,000	::	::	154,150,00	2
G Dakota & Great Southern K'y Co.	- 28	1974	200,000,000	: :	::	86.55	38
Wisconsin Valley R. R. Co.	1879	98	1, 106, 500 00	:	:	7,45	8
c Income Sinking Fund convertible	988	1916	1,444,000 00	: :	::	72,200 00	8
General mortgage	200	200	22,173,000 00	::	: ;	88	35
Milwaukee & Northern R. R. Co., 1st mortgage Milwaukee & Northern R. R. Co., consolidated Interest on bonds canceled	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1913	5,002,000	:	oune and Dec.	305,520 305,520 15,685 91	241,050 00 241,050 00 46,000 66
Less int. accrued on bonds held in the treasury of the company.						\$7,816,747 91	
Total.			\$138,580,000 00			\$7,611,928 18	\$7,575,515 28

a Bonds thus designated are convertible into preferred at ok at any time within ten days after a dividend becomes payable on said preferred stock.

b Bonds thus designated are convertible into preferred stock is any time within filteen days after a dividend becomes payable on said preferred stock.

c Bonds thus designated are convertible into common stock at any time within sixty days after any dividend becomes payable on the stock of the company.

The authorized issue of these bonds is \$5,000,000, of which but \$2,000,000, have been sold.

d Bonds thus designated are payable, principal and interest, in gold, at the office of the company, in New York.

S Bonds thus designated are payable, principal and interest, in gold, in London.

UNFUNDED DEBT.		
For miscellaneous.	96,096,008	64
Total funded debt		
Total unfunded debt.	6,096,008	-
Total debt liabilities		
Amount of debt liabilities per mile of road, 6,150.75 miles.  Total amount of stock and debt.  Stock and debt per mile of road, 6,150.75 miles.	28,521 211,893,161 84,449	60 97 ==
GENERAL BALANCE SHEET.—Dr.		
Construction and equipment account	212,453,124	01
Other investments (specifying same): Stocks owned		
Stocks owned   \$674,095 42		
Cash items:	901,216	12
Cash \$3,688,897 93 Bills receivable 2,250,000 00		
Bills receivable       2,280,000 00         Due from agents and conductors       255,095 01         Due from U. S. government       305,749 44		
Other assets:	6,499,242	38
Materials and supplies       \$2,044,827 76         Sinking funds, etc.       1,037,049 80         Debit balances from companies and individuals       1,009,661 44		
Bonds in treasury \$4,478,000 00 Stock in treasury 4,770 00	4,091,089	
	4,482,770	
Total	228,427,391	51 =
GENERAL BALANCE SHEET.—Cr.		
Capital stock	578,313,161	90
Funded debt.  Sinking funds \$844,724 89 Renewal fund. 487,154 83 Rolling stock replacement fund 401,183 00	138,580,000	w
·	1,733,062	72
Unfunded debt:       \$3,646,878 50         Interest unpaid       52,108 32         Dividends unpaid       52,108 13         Vouchers and accounts       1,342,461 13		
Other liabilities (list as follows): Due sundry companies and individuals 1,055,060 69		
Profit and loss or income accounts.	6,096,008 8 705 159	64 15
Total		_
10141	200,421,001	=
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built by compan	<b>y</b> .	
Total expended for construction and equipment	212,453,124	01
Average cost per mile of road (not including sidings), 6,150.75 miles  Proportion of cost for Michigan, 152.08 miles	84,541 5,811,328	01 10 —

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE AND BRANCHES.	
Extensions and new sidings. Second track New buildings New fences Machinery and tools New equipment Real estate Bridges Ballasting Discounts Miscellaneous	178,788 52 38,155 82 10,845 89 6,072 62 502,036 51 8,557 95 10,802 87 277,482 86
Total charges	
<del>-</del>	
Total charges to property account as above Property sold and credited Net addition to property account	1,147,171 29 27,749 69 1,119,421 60
ANALYSIS OF EABNINGS.—IN STATE OF MICHIGAN.	
PASSENGER BARNINGS.	
Main line and branches: Total passenger fares \$46,581 53	1
Express and baggage 18,445 95 Mails 11,810 34	
Total passenger fares       \$46,581 53         Express and baggage       18,445 95         Mails       11,810 34         Other sources       306 43	
Total passenger department earnings	\$72,096 <b>25</b>
Per train mile, 67,450 miles	
Per mile of road, 152 08 miles 474 07	
Main line and branches: Total traffic	
Total freight department earnings	166,645 47
Per train mile, 150,272 miles       \$1 10.90         Per mile of road, 152.08 miles       1,095 78	
ANALYSIS OF EARNINGS.—ENTIRE LINES.	
PASSENGEE EARNINGS.  Main line and branches:	
Local fares \$5,304,771 68 Through fares 627,327, 48	
Total passenger fares \$5,932,0.9 16	
Express and baggage       859,198 98         Mails       1,188,797 00         Other sources       380,806 45	1
Total passenger department earnings	8,370,901 59
Per train mile, 8,154,051 miles \$1 02.66 Per mile of road, 6,150.75 1,360 96	
FREIGHT BARNINGS.	
Main line and branches:       \$18,658,835 74         Local traffic       \$18,658,835 74         Through traffic       4,092,566 43	
Total traffic \$22,751,402 17	
Total freight department earnings	22,751,402 17
Per train mile, 13,928,997       \$1 63 .36         Per mile of road, 6,150.75       3,698 96	
Total transportation earnings, entire line	881,122,308 76
Transportation earnings per mile of road, 6,150.75 miles.         \$5,039 92           Transportation earnings per train mile, 22,081,048 miles.         1 40.95	

Taxable   Not taxable   Not taxable   Total	From telegraph companies	· · · · · · · · · · · · · · · · · · ·	. \$47,222 79	
Total   Taxable   Not taxable   Taxable   Not taxable   Taxable   Not taxable   Total   Tota	From rents not otherwise provided for		111,479 51	
Taxable   Not taxable   Total	From other sources, stock yards		40,092 45	
Taxable	Total		••••••	\$230,085 91
Preight earnings	DISTRIBUTION OF MISCELLANEOUS EARNINGS BETWEEN MAIN LI	NE AND LEASI	ED OR PROPRIE	TARY BOADS
Mails		Taxable.		Total, Michigan.
Extra baggage	Passenger earnings	38,778 40 9,589 38 8,526 60	2,220 96	\$166,645 4' 46,531 51 11,810 34 12,357 80 224 40
Total earnings from operation of road	Extra baggage	769 57 81 46	2 57	1,088 56 84 01 124 00
Total earnings per mile of road, 6, 150.75 miles	Totale	\$177,958 81	\$60,906 91	\$288,865 72
Total earnings per mile of road, 6, 150.75 miles	Total earnings from operation of road			31.352.389 <b>67</b>
Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   Siling   S				
ANALYSIS OF EXPENSES.	ncome other than from earnings			302,577 67
### ANALYSIS OF EXPENSES.    MAINTENANCE OF WAY AND STRUCTURES.				
MAINTENANCE OF WAY AND STRUCTURES.   \$1,811,812	Proportion of income for Michigan (proportional)			791,374 18
Repairs of roadway	ANALYSIS OF EXPENS	ES.		
Renewals of ties				
MAINTENANCE OF EQUIPMENT.   \$1,111,368   \$8-pairs and renewals of locomotives   \$1,522,840   \$1,522,840   \$8-pairs and renewals of freight cars   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,504   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,918,544   \$1,91	MAINTENANCE OF WAY AND STE	UCTURES.		
Repairs and renewals of locomotives   \$1,111,363   Repairs and renewals of passenger cars   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,522,840   \$1,524,840   \$1,524,840   \$1,524,840   \$1,524,840   \$1,524,840   \$1,524,840   \$1,544   \$1,544   \$1,544   \$1,544   \$1,544   \$1,544   \$1,544   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,545   \$1,55   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1,555   \$1	Repairs of roadway			\$1,811,812 85 667,283 04 836,378 62 713,663 23 56,428 47 269,169 45
Bepairs and renewals of passenger cars   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840   1,522,840	Repairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures	guards		886,878 62 713,663 28 56,428 47 269,169 45
Total	Repairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures Total	guards		886,878 62 713,663 28 56,428 47 269,169 45
Total	Repairs of roadway  Renewals of tails  Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of fences, road crossings, signs and cattle  Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPME	guards		836,378 62 713,663 23 56,428 47 269,169 45 84,854,735 66
Engine and roundhouse men       \$1,860,084         Tuel for locomotives       1,918,544         Dil, tallow and waste for locomotives       110,875         Irain service       1,565,825         Irain and station supplies and expenses       441,832         Switching charges—Balance       332,034         Lar mileage—Balance       217,656         Loss and damage       70,698         njuries to persons       141,415         Advertising       142,415	Repairs of roadway Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPME	guards		836,378 62 713,663 23 56,428 47 269,169 45 84,854,735 66
Fuel for locomotives       1,918,544         Ul, tallow and waste for locomotives       110,875         Irain service       1,565,825         Irain and station supplies and expenses       441,832         Switching charges—Balance       332,034         Car mileage—Balance       217,656         Loss and damage       70,698         Injuries to persons       141,415         Advertising       )	Repairs of roadway Renewals of tails Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPMS Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools	guards		886,378 62 713,663 23 56,428 47 269,169 45 \$4,854,735 66 \$1,111,368 69 1,522,840 71 73,504 24
Train service	Repairs of roadway Renewals of tails Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures  MAINTENANCE OF EQUIPME Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools  Total	guards		886,378 62 713,663 23 56,428 47 269,169 45 \$4,854,735 66 \$1,111,368 69 1,522,840 71 73,504 24
Switching charges—Balance       382,034         Car mileage—Balance       217,656         Loss and damage       70,698         Injuries to persons       141,415         Advertising       )	Repairs of roadway Renewals of tails Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPME Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of frequency to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco	guards	}	838,378 62 713,663 23 56,428 47 259,169 45 84,354,735 66 81,111,368 69 1,522,840 71 73,504 24 82,707,708 64
ACIVOFUISIDO	Repairs of roadway Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPMS Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools  Total  CONDUCTING TRANSPORTAT Regine and roundhouse men Fuel for locomotives Ult tallow and waste for locomotives Irain service	guards	}	838,378 62 713,663 22 76,428 47 269,109 45 84,354,735 66 81,111,368 69 1,522,840 71 73,504 24 82,707,708 64 119,875 48 11,860,084 17 119,875 48
Stock yards and elevators         35,395           Other expenses         138,065	Repairs of roadway Renewals of tails Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPMS Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools  Total  CONDUCTING TRANSPORTAT Rengine and roundhouse men Fuel for locomotives Oll, tailow and waste for locomotives Irain service	guards	}	838,378 62 713,663 23 56,428 47 269,169 45 81,111,363 69 1,522,840 71 73,504 24 82,707,708 64 110,875 13 1,565,825 41 441,352 55 2,664,556 50 332,034 04 217,656 86 70,698 66
Total	Repairs of roadway Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road creesings, signs and cattle Repairs and renewals of buildings and fixtures  Total  MAINTENANCE OF EQUIPMS Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools  Total  CONDUCTING TRANSPORTAT Regine and roundhouse men Fuel for locomotives Oil, tallow and waste for locomotives Train service Train service Switching charges—Balance Loss and damage Injuries to persons Advertising Outside agencies Record wards and aleystors	guards	}	888,378 62 713,683 23 56,428 47 259,169 45 81,111,363 69 1,522,840 71 73,504 24 82,707,708 64 110,875 13 1,565,825 41 441,352 65 2,664,556 50 322,034 04 217,656 50 322,034 04 217,656 85 31,415 94 119,878 88 35,395 71

# GENERAL EXPENSES.

Balaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses.  Other expenses.  Taxes	88 188 258	3,011 3,98 3,82	
Total	\$2,296	, 23	9 84
RECAPITULATION OF EXPENSES.			
Renewal account.  Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes.	4,354 2,707 9,656	73: 7,700 3,400	5 66 8 64 3 24
Total operating expenses and taxes	\$19,465	,087	7 38
Operating expenses and taxes per mile of road, 6,150.75 miles.  Operating expenses and taxes per train mile run, for trains earning revenue, 22,081,048 miles.  Proportion of operating expenses and taxes for Michigan, estimated		34 6	7
Total proportion of expenses for Michigan, estimated	\$191,92	21 9	4
Percentage of expenses and taxes to earnings 62.09% Not earnings per mile of road, 6,150.75 miles. Not earnings per train mile, 22,081,048 miles		,9 <b>82</b> 58	2 66 3 84

# DESCRIPTION OF ROAD.

MILES OF ROAD

Total.	82.8 3.00.8 3.30.00 3.30.00 81.881	2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25	202.52 202.52 203.54 203.53 203.53 203.53	181 228 228 238 238	23.25.28 25.28.28 26.28.28	32.12 22.14 32.17 180.80 100.80	6.17 28.52 42.80 11.49 10.09
Michigan.							
Missouri.			140.27				
South Dakota.							
North Dakota.							
Minnesota.							
Iowa.		349.18 10.05 153.87 84.61	97.63 97.00 62.27	.12			
Wisconsin.	28. 88.		69.31	196. 25.01 25.02 22.03 29.05	22.78 22.78 31.28 17.06	33.01 12.74 33.17 3.76 180.30	6.17 1.06 28.52 42.30 11.49 19.09
Illinois.	25.06 81.38 81.38 81.38	22.88	50.63	8.2	1.01		
To	Milwaukee Libertyville Llewellyn Park Pacific Junction Swenna.	Danning Council Bluffs Clinton Jackson Junction. Hurstyille	Farley Ottumwa Cobug Cobug Rithadge Port Byron Junction Eagle	Brekford North McGregor Merrill Park Prairie du Sac Richland ('enter	Beloit New Glarus Mineral Point Platteville La Crosse Madison	Rast Madison Necedah Vivotus Onalaska Star Lake Portage City	North Milwankee Rock Frod du Lac Berlin Markesan Oshkosh
From	Chicago Bondout Chicago North Chicago Pacific Junction	Galewood Savanna Elk River Junction Davemport	Paralta Marion Ottumwa Junction Bacina Bayana.	Boekton Milwankee Skock Yards, Milwankee Masomanie Lone Bock Milton	Janesville Hyodheed Warren Calamine South Milwaukee	Portage City New Lisbon Viroqua Junction North La Crosse Tomah Chestnut St., Milwaukee	Merrill Park Cement Line Junction Iron Ridge Brandon Ripon

MILES OF ROAD.—Concluded.

14		M	CHIGAI	N RAIL	ROAD .	RETURN	NS, 1896.	•	
	Total.	14.89 161.11 35.77 28.34 22.86	57.77 129.81 8.80 24.78 60.21	20.61 11.25 10.20 11.25 11.25 11.25	9.38 62.85 172.02 10.00	353.42 383.42 38.06 103.02	177.27 13.45 7.84 116.97	25.72 27.22 128.39 88.39	57.02 40.99 26.89 90.17
	Missouri. Michigan.								
	Missouri.								
	South Dakota.			149.77	.39	97.20	1.28	37.24 38.71 128.31 32.72	26.39 26.39 26.39
	North Dakota.						07-69	17.20	
led.	Minnesota.	24. 93	57.77 128.42 8.30 24.78 60.21	1.83	130.64	256.22 286.22 88.08	177.27 18.45 7.84 46.29 1.47	58.71	
D.—Concluc	lowa.	136.18 35.77 58.34 22.95		291.48 19.20 20.18	8.99 41.38 10.00 27.95				90.17 5.68
MILES OF ROAD.—Concluded.	Wisconsin	88.41	1.39	61.18					
W	Illinois.								
	£	Winneconne River Junction Cascade Cascade Wat Union	Preston St. Paul Minneapolis Still water Zumbrota	Chippewa Falls Codar Falls Chamberlan Elkader Spirit Lake	Eden. Running Water Minneapolis. Decora	St. Paul Cannon Junction Woonsocket Mankako Eristol	Ortonville Hutchinson Lake Minetonka Fargo Aberdeen	Benton Junction. Sisseton Aberdeen Edgeley	Bowdle Orlent Eureka Sloux City Scotland Junction
	From	Rush Lake Junction Sabula Junction Bellevier Turkey River Junction Wankon Junction	Beno North La Crosse Sr. Paul. St. Croix Junction Wabsaha	Wabasha Bed Cedar Junction North McGregor Beulah Spencer	Rock Valley. Marion Junction. Calmar. Conover. Austin	Mendota Northfield La Urescent Wells Madison	South Minneapolis Glencoe Hopkins Ortoaville Ortoaville Junction	Hasting s Milbank Andover Mitchall Aberdeen	Aberdeen Roecce Boscoe Mantla Sioux City

20.52 20.13 20.13 20.13	9.97 23.42 23.45 5.20	25.79 253.81 20.36 1.48	11.34 22.43 17.05 47.05 45.90 45.90	152.06 6,150.75
20.45 67.81				140.27
- :				1,101.06
20.48		91.19		118.21
18.91				1,120.09
84.92				1,553.37
18.91	9.8.5. 2.4.8	20.92 196.02 1.48 1.48	21.08 21.08 17.08	1,647.79
				317.88
Mitchell Armour Sioux Falls Junction Baboock	Pittaville Vesper Lynn Bomadka	Champion Appleton Neenah	Oconto 11.94 Menominee 21.09 Northwest 17.66 Sidnaw Ontonagon	
Soctiand Tripp Rik Point Necedah	Babcock Pittsville Junction Dexterville Lynn	In city of Fond du Lac North Milwaukee. Hilbert Junction Menasha	Oconto Junction Elia Junction Wansankee Channing	Totals

MAIN LINE.		
Length of double track	Miles.	Miles. 204.53
BRANCHES.		
Total length of road belonging to this company  Total length of road belonging to this company in Michigan	152.08 48.57	6,150.75
Aggregate length of tracks in Michigan belonging to this company, computrack	ted as single	200.65
Gauge of track, 4 feet 8% inches		5,997.00 158.75
Proprietary or leased roads operated by this company		
Total miles operated by the company	6,150.75	152.08
Number of bridges and trestles in Michigan.	Number	Aggregate length, feet.
Wooden bridges	8 2	586 190
	130	
Total		
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? C. & N. W. R. R. at Waubic, Iron Mountain, Amasa and Champion. D., S. & A. R. R. at Champion, Sidnaw and Republic.		
What railroads cross your road either over or under your grade in this State, Under:	and where?	
C. & N. W. R. R. at Iron Mountain.  At what crossings are interlocking and derailing switches in operation?  D., S. S. & A. at Republic and Sidnaw.  C. & N. W. at Waubic.		
What pattern or patterns have you adopted? Union Switch and Signal Co. (Farmer & Saxby.)		
Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gate Number of crossings at which there are electric or automatic signals.	s or flagmen	46 5 1
What pattern or patterns in use? Electric bell.		
Number of crossings of highways over or under railroad: under, 2.  Have safety guards been erected at overhead obstructions?		
Yes.  Are your frogs and guard rails blocked as required by act 174, session laws of	18837	
Yes. How are they treated?		•
Hart's foot-guard and plank.  Stations.		
Number of stations on whole lines.	·····	895 24
Employés.		
Number of persons regularly employed on all roads operated by company, inclu  Same in Michigan	ding officials	20,216 121
Classify your employés as per following list:		Number.
Baggagemen		3
Brakemen Conductors		5 4
Engineers		Ī
Firemen Laborers		75
Yardmen Others		8 28

# REPAIRS AND RENEWALS.

# Fencing in Michigan.

	resocuty us mu	cnigan.		
How many miles of fencing have you		· · · · · · · · · · · · · · · · · · ·		38
Give the number of miles required to and the counties in which needed:	complete fence bot	th sides of your tra	ck in Michigan,	
Dickinson.			• • • • • • • • • • • • • • • • • • • •	66
Marquette				66 29 53 11 87 28
Baraga		<i></i>		îi
Houghton		· · · · · · · · · · · · · · · · · · ·		87
Ontonagoa				
Total miles required			=	224
	Road bed and	track.		
No. 1	_	•		
Number of track sections in Michiga Average lengths of sections, miles				<b>20</b> 8
Average number of men in each sect	on gang	· · · · · · · · · · · · · · · · · · ·		3
Average number of men in each sect Number of new ties put in whole line Number of new ties put in track in a Average number of new ties per mile	during the year			2,021,806
Average number of new ties per mile	of road in Michiga	n		46,500 810
	<b>-</b>		=	
•	Bridges and ou	lverta.		
Amount of trestle work replaced with	h earth during the y	ear (linear feet)	=	276
				Number.
Timber culverts replaced during the	year			18
With iron pipe				12
With timber				6
New bridges built during the year—n	umber:		_	
Location.	Kind.	Material.	Month built.	feet in length.
••		_		
Menominee	Trestle	Wood		138 <b>383</b>
Menominee Iron Mountain		Iron		8814
Kennblic	Pile bent	Wood		44%
Republic	Pile bent	W 000		44%
	ROLLING 87	OCK.	,	Number.
Number of locomotives of more than	30 tons' weight, exc	dusive of tender		821
Number of locomotives of more than Number of locomotives of 20 to 30 to Number of locomotives of 10 to 20 to	s' weight, exclusive	of tender		18
Number of locomotives of 10 to 20 to	18. Meight, excideta	e of tender		5
Total				844
			==	
Number of passenger cars—12-wheel, Number of passenger cars—8-wheel, Number of express and baggage cars Number of box freight cars Number of stock cars Number of stock cars Number of platform cars	including official o	Are		152
Number of passenger cars -8-wheel,	ncluding official co	rs		261 287
Number of express and baggage cars				287
Number of refrigerator cars				18,540 474
Number of stock cars	•			2,503 5,384
Number of platform cars				5,384 245
Number of ore cars				65
Number of log cars				491
Other cars as ioliows:				75
Wrecking, tool cars, etc. Parlor cars, 16; sleeping cars, 58; d	ining cars, 8			77
Total			==	28,554
Number of locomotives equipped wit	h nower brakes		760	
Number of resignt cars equipped wit Number of freight cars equipped wit	pped with power br	akes	768	

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse—locomotives, 691; cars, 10,568. Vacuum—locomotives, 6. Steam—locomotives, 68.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

Yes.

What pattern or patterns have you adopted for use?
M. C. B. type.

How are your passenger cars heated? Steam.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	E	ntire lines. In l	Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		7,904,716 13,178,992 997,340	55,795 115,305 46,622
Total mileage of trains earning revenue	•••••	22,081,048	217,722
Passenger traffic.—Entire lines.			
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	178,866 7,152,050		
Total number of passengers carried earning revenue	7,330,916		
Number of passengers carried one mile	2	32,766,915 85.84	
Average amount received from each passenger			20 80,919
Average receipts per mile for through passengers			02.855
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			02.247
Average receipts per passenger per mile for all passengers			02.258
		-	
Passenger traffic.—In State of Michigan—Pr	roportional		
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	4,472 178,801		
Total number of passengers carried earning revenue	183,273	•	
Number of passengers carried one mile.  Average distance carried		6,569,173 35.84	
Average amount received from each passenger			\$0 80.919
Average receipts per mile for through passengers			02.858
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers		<b></b>	02.247 02.258
Watered tecerbre her bessender her mine for em bessenders			U2.200
		-	
Freight traffic.—Entire lines.		<b>N</b> (1)	D-4-
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	2,725,525 9,284,270		
Total tons of freight carried, earning revenue	• •		
Total mileage of through freight Total mileage of local freight.	1	542,859,758 ,755,486,904	
Total freight mileage or tons carried one mile	2	,298,846,657	
Average ton haul for through freight	······································	199.18 190.11	
Average ton haul for all freight.		192.17	
Average amount received for each ton haul			\$1 90.232 00.754 01.006 00.990

# Freight traffic.—In State of Michigan—Proportional.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	68,138 230,857		
Total tons of freight carried, earning revenue	298,995		
Total mileage of through freight Total mileage of local freight		13,571,494 43,887,172	
Total freight mileage or tons carried one mile		199.18	
Average ton haul for all freight		192.17	
Average amount received for each ton haul			\$1 90.282 00.754 01.006 00.990

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

Company's material excluded.	Whole tons.	Per cent.
Total tonnage	11,959,795	100.00

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# ${\it Company's material\ excluded.}$

_	Freight	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons	roads and other carriers Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	175	70	245	.04	
Flour	21	469	490	.06	
Other mill products	5	28	88	.01	
Hay	353		358	.00	
Tobacco	1		1		
Fruit and vegetables	108	21	129	.05	
Products of animals:		ł			
Live stock.	424		424	.07	
Dressed meats	32		32	.01	
Other packing house products	5	230	235	.04	
Poultry, game and fish	78	369	447	.08	
Hides and leather	12		12		
Products of mines:					
Anthracite coal	182	l	182	.01	
Bituminous coal	1,017		1,017	.18	
Ores	272,270	12,208	284,478	48.9	
OresStone, sand and other like articles	552	647	1,199	.2	
Salt	13		18		
Products of forest:		}			
Lumber	46,5%	4.849	51,435	8.8	
Logs	197,619	33,446	231,065	39.7	
Manufactures:			!		
Petroleum and other oils	82		82	.01	
Iron, pig and bloom		364	364	.00	
Other castings and machinery	70	37	107	.01	
Bar and sheet metal	1	18	14		
Cement, brick, and lime	152		152	.0	
Agricultural implements	12		12		
Wagons, carriages, tools, etc.	13		13		
Wines, liquors and beers	567		567	.10	
Household goods and furniture	254	21	275	.00	
Merchandise	2,969	1,245	4,214	.73	
Miscellaneous: Other commodities not mentioned above	1,118	1,931	3,049	.53	
Total tonnage	524,691	55,948	580,639	100.0	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The United States Express Company. Does a general express business. Rates are various and governed by the business done and the facilities furnished. Freights taken at the various depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
608,400 miles of line—21,042.50 miles of wire. For the construction of the telegraph lines, the Western
Union Telegraph company or the Northwestern Telegraph company in some cases furnished some
material and claim joint ownership. Amount not definitely fixed.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If reuted by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman's Palace Car Company, Chicago, Illinois; no compensation; railroad company keeps cars in repair.

#### Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? The cars of all transportation companies are allowed to run over the lines of this company, paying regular rates and receiving mileage.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

March 20, J. P. Devaney, switchman, fron Mountain. Fell from top of car.

#### INJURED.

May 2, Geo. Runnels, tramp, Republic. Jumped from moving train; arm broken.
June 23, V. Johnson, section man, Park Spur. Lying on track; foot cut off.
Aug. 14, A. Walling, yardmaster, Menominee. Uncoupling cars; finger crushed.
August 28, C. H. Minnis, switchman, Iron Mountain. Coupling cars; finger crushed.
November 18, Nels Larson, section man, Menominee. Ball fell on foot; foot bruised.
December 2, H. Hancock, engineer, Champion. Fell in cab of engine; ankle sprained.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.			Injured.		
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Coupling carsFalling from trains		<u>-</u>			2	
Miscellaneous  Trespassers on trains		l			8	
_						
Total		1			5	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	1
Number of persons injured during the year.	Ĩ.
Number resulting from lack of caution carelessness, or misconduct	7
Trespassers and tramps killed or injured	1

# CLASSIFICATION OF EMPLOYES.

# KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Rngineers	i	14	1 5
Total	1	5	6

STATE OF ILLINOIS, \ S8.

F.G. Ranney, treasurer, and W. N. D. Winne, general auditor, of the Chicago, Milwaukee & St. Paul Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of Decamber, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

F. G. RANNEY, Treasurer, W. N. D. WINNE, General Auditor.

Subscribed and sworn to before me this 15th day of March, A. D. 1897.
[L. S.]

W. D. MILLARD, Notary Public.

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# ANNUAL REPORT

OF THE

# CHICAGO, MILWAUKEE & ST. PAUL RAILWAY COMPANY,

[Supplementary.]

For the year ending December 81, 1896.

[Filed March 17, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ROSWELL MILLER, Chicago.

Vice President, FRANK S. BOND, New York.

Secretary, P. M. MYERS, Milwaukes.

General Auditor, W. N. D. WINNE, Chicago.

Treasurer, F. G. RANNEY, Chicago.

Second Vice President and General Manager, A. J. EARLING, Chicago.

General Superintendent, W. G. COLLINS, Chicago.

Assistant General Superintendent in Michigan, W. J. UNDERWOOD, Milwaukes.

Division Superintendent in Michigan, R. R. MINTURN, Green Bay.

Chief Engineer, D. W. WHITTEMORE, Chicago.

Superintendent of Telegraph, U. J. FRY, Milwaukes.

General Passenger and Ticket Agent, G. H. HEAFFORD, Chicago.

General Freight Agent, J. H. HILAND, Chicago.

General Counsel, GEO. R. PECK, Chicago.

#### DIRECTORS.

PHILIP D. ARMOUR, Chicago
AUGUST BELMONT, New York.
FRANK S. BOND, New York.
CHARLES H. COSTER, New York.
CHARLES D. DICKEY, JR., New York.
PETER GEDDES, New York.
FEEDERICK LAYTON, Milwaukee,
JOSEPH MILLBANK, New York.
ROSWELL MILLER, Chicago.
J. M. MCKINLAY, New York.
WM. ROCKEFELLER, New York.
SAMUEL SPENCER, New York.
A. VANSANTVOOED, New York.
Terms expire September, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 5, 1863. Number of stockholders at date of last election: 4,766. Number of stockholders in Michigan at same date: 14. Amount of full paid stock held in Michigan at same date: \$56,100.00. Date of annual meeting of stockholders: September. Fiscal year of company ends June 30. General offices of the company are located at Chicago, Ill.

# ANALYSIS OF EARNINGS .- IN STATE OF MICHIGAN.

PASSENGER EARNINGS.		
Main line and branches: Total passenger fares. Express and baggage Mails Other sources.	\$7,758 13 4,149 78 2,220 96 2 57	
Total passenger department earnings.  Per train mile.  Per mile of road.	\$1 88.08 300 24	\$14,126 44
FREIGHT EARNINGS.		
Main line and branches: Total freight department earnings. Per train mile	1 18.07 9 94.27	46,780 47
•	roportion for	<del></del>
Freight earnings Passenger earnings Mail earnings Express earnings Extre baggage Sleeping car.	Michigan.  \$46,780 47  7,753 13  2,220 96  3,830 76  319 02  2 57	
Total earnings from operation of road		\$60,906 91
Date when the road was opened for use between its present termini: From Channing to Sidnaw, January 1, 1893.  MAIN LINE.  In Michigan, from Channing to Sidnaw		Miles. 47.05
		====
Gauge of track, 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.		
Give date road commenced to be built: February, 1892.		
Give date road completed: December, 1892.		
Give date road commenced to be operated: January 1, 1893.		
Where built from and to: Channing to Sidnaw.		
Give exact number of miles: 47.05.		
STATE OF ILLINOIS, Ss. COUNTY OF COOK, Ss. F. G. Ranney, Treasurer, and W. N. D. Winne, General Auditor, of the Cl	hicago, Milwa	ukse & St.

F. G. Banney, Treasurer, and W. N. D. Winne, General Auditor, of the Chicago, Milwaukee & St. Paul Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. 8. OF E. E.]

Signed,

F. G. BANNEY Tracement

F. G. RANNEY, Treasurer. W. N. D. WINNE, General Auditor.

Subscribed and sworn to before me this 15th day of March, A. D. 1897.

W. D. MILLARD, Notary Public.

# ANNUAL REPORT

#### OF THE

# CHICAGO & NORTHWESTERN RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed March 1, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, MARVIN HUGHITT, Chicago, Ill.
Vice President, M. L. SYKES, New York, N. Y.
Secretary, M. L. SYKES, New York, N. Y.
Auditor, J. B. REDFIELD, Chicago, Ill.
Treasurer, M. L. SYKES, New York, N. Y.
General Manager, J. M. WHITMAN, Chicago, Ill.
General Superintendent, S. SANBORN, Chicago, Ill.
Assistant General Superintendent, W. A. GARDNER, Chicago, Ill.
Division Superintendents, { W. B. LINSLEY, Escanaba, Mich.
Lines in Michigan, { CHARLES H. HARTLEY, Kaukauna, Wis.
Chief Engineer, JOHN E. BLUNT, Chicago, Ill.
Superintendent of Telegraph, GEORGE H. THAYER, Chicago, Ill.
Second Vice President, M. M. KIRKMAN, Chicago, Ill.
General Fassenger and Ticket Agent, W. B. KNISKERN, Chicago, Ill.
General Freight Agent, M. HUGHITT, Jr., Chicago, Ill.
General Counsel, LLOYD W. BOWERS, Chicago, Ill.

#### DIRECTORS.

DAVID P. KIMBALL, Boston, Mass. CHAUNCEY M. DEPEW, New York, N. Y. SAMUEL F. BARGER, New York, N. Y. ALBERT KEEP, Chlcago, Ill. M. L. SYKES, New York, N. Y. JAMES C. FARGO, New York, N. Y. Terms expire June, 1897. ZENAS CRANE, Dalton, Mass. OLIVER AMES, Boston, Mass. James Stillman, New York, N. Y. MARVIN HUGHITT, Chicago, Ill. N. K. FAIRBANK, Chicago, Ill. Terms expire June, 1898. BYRON L. SMITH, Chicago, Ill. CYRUS H. McCORMICK, Chicago, Ill. F. W. VANDERBILT, New York, N. Y. W. K. VANDERBILT, New York, N. Y. H. McK. Twombly, New York, N. Y. JOHN I. BLAIR, Blairstown, N. J. Terms expire June, 1899.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 7, 1859. Number of stockholders at date of last election: 5,247. Number of stockholders in Michigan at same date: 18. Amount of full paid stock held in Michigan at same date: \$167,500. Date of annual meeting of stockholders: First Thursday in June. Fiscal year of company ends: May 31. General offices of the company are located at Chicago, Ill.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$82,177,152 81
Net income		\$10,950,228 01
Interest on funded and unfunded debt	221,412 50	
Balance applicable to dividends	\$8,517,757 50	4,325,282 14
Balance for the year		\$807,524 64 9,584,079 25
Items not included in above, as follows:  Less written off May 31, 1836, transferred to "cost of road" on account of net income expended for construction purposes in previous years and not capitalized.	6,492,813,25	
Balance forward to next year		\$3,899,290 64
ANALYSIS OF CAPITAL STOCK.		
Par value of shares \$100 00  Number of shares issued 663,888  Common stock outstanding (including stock of proprietary railroads Preferred stock outstanding	\$44,030,365 97 22,353,454 56	
Total amount outstanding including stock of proprietary railroads, as the company.	per books of	\$66,383,820 58
Paid in per mile of road owned by C. & N. W. By. and proprietary Co.'s, 4,9	70.76 miles	\$13,354 86

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

	Issued.		Interest.		
Name of bond.		Due.	Rate.	Payable.	Amount.
Maple River R. R. Chic. & Mil. R'y, 1st Peninsula R. R. Lowa Midland R'y. Escanaba & L. Sup. R'y	JINIV I. IXXX I	July 1, 1897. July 1, 1898. Sept. 1, 1898 Oct. 1, 1900. July 1, 1901.	7% 7% 7% 8% 8%	Jan. 1 and July 1 Jan. 1 and July 1 Mar. 1 and Sept. 1 Apr. 1 and Oct 1 Jan. 1 and July 1	\$402,500 1,700,000 96,000 1,850,000 720,000
Iowa Division, 1st mort General Consol, gold Milw. & Madison B'y Chicago & Tomah. Chic. Mil. & No. West'n B'y	Nov. 80, 1872	Apr. 1, 1902 Dec. 1, 1902 Sept. 1, 1905 Nov. 1, 1905 Nov. 1, 1905	41/4× 7× 6× 6× 6×	Apr. 1 and Oct. 1 June 1 and Dec. 1 Mar. 1 and Sept. 1 May 1 and Nov. 1 May 1 and Nov. 1	1,411,000 12,396,000 1,600,000 1,528,000 750,000
Menominee Biver B. R., 1st. Menominee Biver B. R. Ext., 1st. Des Moines & Minn. R. R. M., L. S. & W. R'y, Deb. of 1907. Dakota Cent. Ry. (W. & St. P. Con.)	Feb. 1, 1882.	July 1, 1906 July 1, 1906. Feb. 1, 1907. Feb. 1, 1907. Sept. 1, 1907.	7x 7x 7x 5x 6x	Jan. 1 and July 1 Jan. 1 and July 1 Feb. 1 and Aug. 1 Feb. 1 and Aug. 1 Mar. 1 and Sept. 1	400,000 160,000 600,000 436,000 1,065,000
Dakota Cent. R'y (So. Ea. Div.)	Nov. 1, 1882. Nov. 1, 1867 Sept. 1, 1878 Sept. 1, 1878. Oct. 1, 1878.	Nov. 1, 1907. Nov. 1, 1907. Sept. 1, 1908. Sept. 1, 1908. Oct. 1, 1908.	6x 7x 7x 7x 7x	May 1 and Nov. 1 May 1 and Nov. 1 Mar. 1 and Sept 1 Mar. 1 and Sept. 1 Apr. 1 and Oct. 1	2,000,000 1,392,000 200,000 100,000 150,000
Ott., C. F. & St. P. R'y C. R. & M. R. 7s of 1884 Debentures of 1909 Nor. Illinois R'y Madison Extension	June 1, 1884	Mar. 1, 1909 July 1, 1909 Nov. 1, 1909 Mar. 1, 1910 Apr. 1, 1911	5% 7% 5% 5% 7%	Mar. 1 and Sept. 1 June 1 and Dec. 1 May 1 and Nov. 1 Mar. 1 and Sept. 1 Apr. 1, and Oct. 1	1,600,000 769,000 6,000,000 1,500,000 8,150,000
M. L. S. & W. Ry., income bonds	June 1, 1871. Jan. 16, 1865	May 1, 1911. June 1, 1911. Feb. 1, 1915. May 1, 1916. Dec. 1, 1916.	84 74 74 74 75	May 1 and Nov. 1 June 1 and Dec. 1 { Feb. 1 and May 1 } { Aug. 1 and Nov. 1 } May 1 and Nov. 1 June 1 and Dec. 1	500,000 2,697,000 12,804,000 2,882,000 4,241,000
Northwestern Union R'y Debentures of 1921. M., L. S. & W. R'y, Consol., ist M., L. S. & W. R'y, Marshfield Ext M., L. S. & W. R'y, Mich. Div., ist M., L. S. & W. R, Mich. Div., ist	June 1, 1872. Feb. 28, 1891 May 2, 1881	June 1, 1917. Apr. 15, 1921 May 1, 1921. Oct. 1, 1922. July 1, 1924. Mar. 1, 1925.	7% 5% 6% 5% 6%	Mar. 1 and Sept. 1 Apr. 15 and Oct. 15 May 1 and Nov. 1 Apr. 1 and Oct. 1 Jan. 1 and July 1 Mar. 1 and Sept. 1	3,500,000 10,000,000 5,000,000 400,000 1,281,000 1,000,000
C. & N. W. R'y, Ext. of 1886 M., L. S. & W. R'y, Ext. & Imp. M't'g Consol., S. F. of 1879 Consol., S. F. of 1879 S. F. Debentures of 1988 Wis. Northern R'y, 1st mort	Apr. 15, 1886. Feb. 1, 1889. Oct. 1, 1879. Oct. 1, 1879. May 1, 1883. July 15, 1896	Aug. 15, 1926 Feb. 1, 1929 Oct. 1, 1929 Oct. 1, 1929 May 1, 1933 July 15, 1931	4% 5% 6% 5% 5% 4%	Feb. 15 and Aug. 15 Feb. 1 and Aug. 1 Apr. 1 and Oct. 1 Apr. 1 and Oct. 1 May 1 and Nov. 1 Jan. 15 and July 15.	18,632,000 4,188,000 6,187,000 7,381,000 9,800,000
Total					\$181,808,500

Payable at New York.

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For current balances	Will probably be paid in cash	\$5,386,470 22

### RECAPITULATION.

RECAPITULATION.	
Total funded debt	\$181,808,500 00 5,886,470 22
Total debt liabilities	\$187,194,970 22
Amount of debt liabilities per mile of road, funded, 4,970.76 miles, \$26,516.77; unfunded, 5,030.78 miles, \$1,070.70.  Total amount of stock and debt.  Stock and debt per mile of road, stock and funded debt, 4,970.76 miles, \$39,871.63; unfunded debt, 5,080.78 miles, \$1,070.70.	27,587 47 208,578,790 75 40,942 88
GENERAL BALANCE SHEET.—Dr.	
Construction account.	\$174,808,916 91
Construction account.   Bequipment account.   Sequipment account.   Cother investments (specifying same):   Section   Sectio	
for C. & N. W. R'y, 4 per cent ext. bonds of 1886. 18,285,000 00	36,393,947 45
Cash items:       \$2,576,132 89         Cash       277,497 07         Due from agents       1,035,847 25	8,889,477 21
Other assets:         Materials and supplies         \$2,068,934 68           Sinking funds, trustees of         7,932,387 87           Debit balances from companies and individuals         741,498 23	
Total	\$225,885,182 85
GENERAL BALANCE SHEET.—Cr.	
Capital stock	\$66.888.820 58
Funded debt. Purchase account (bonds on hand from purchase of M., L. S. & W. By.). Sinking funds Installments paid \$5,669,738 70 Accretions 1,262,649 17	\$66,883,820 58 181,806,500 00 8,407,000 00 7,932,887 87
Unfunded debt: 1,950,736 85 Interest unpaid 1,376,934 75 Dividends unpaid 1,376,934 75 Vouchers and accounts 2,058,799 12	
Other liabilities (list as follows): Land income account. Income account, Consolidation Coal Co. Profit and loss or income accounts.	2,005,174 01 12,539 08 8,899,290 64
Total	
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built and acquired by con-	-
ing cost of proprietary lines embraced in this report.	
Total expended for construction and equipment Average cost per mile of road, not including sidings, 4,970.76 miles Proportion of cost for Michigan Miles owned by C. & N. W. By. and proprietary lines—whole line 4,970.76 Miles owned by C. & N. W. By. and proprietary lines—in Michigan 521.19	\$174,806,916 91 85,167 44 18,828,919 40

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

#### MAIN LINE.

Lands, extensions and new sidings   \$1,185,290 18	MAIN LINE.		
Total charges to property accounts a above   2,622,634 49	Second track New buildings and bridges New fences and road crossings Machinery and tools	932,584 205,838 5,363 9,067	18 83 76 22
representing no avails or resources to the company was written off to credit of "coat of road" 11,788,329 88  Net reduction in property account 9,165,695 39  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.  PASSENGEE EARNINGS.  Main line and branches: 212,740 84 Through fares 9303 27 Total passenger fares 1218,044 11 Express 46,138 68 Mails 45,108 56  Total passenger department earnings \$304,291 35  Per train mile 588 84  PREIGHT BARNINGS.  Main line and branches: 1,776,461 68 Through traffic 1,778,113 15  Total traffic 1,778,113 15  Total freight department earnings 1,778,113 15  Per train mile 1,778,113 15	Total	\$2,622,634	49
Net reduction in property account   9,165,695 39	representing no avails or resources to the company was written off to credit of "cost of	!	
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.  PASSENGEE BARNINGS.  Main line and branches: Local faree \$212,740 84 Through fares \$303 27 Total passenger fares \$218,044 11 Express \$46,138 68 Mails \$45,108 56  Total passenger department earnings \$304,291 35  Per train mile \$0 71.06 Per mile of road \$583 84   PREIGHT BARNINGS.  Main line and branches: Local traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,776,461 68 Through traffic \$1,778,113 15  Total freight department earnings \$1,778,113 15	Net reduction in property eccount	11,788,329	88
Main line and branches:   \$212,740 84   303 27   303 27   304 21   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27   305 27	Man targomory by brobers? accounts		
Main line and branches:       \$212,740 84         Local fares       303 27         Total passenger fares       213,044 11         Express       46,133 68         Mails       45,106 56         Total passenger department earnings       \$304,291 35         Per train mile       \$0 71.06         Per mile of road       583 84         FREIGHT BARNINGS.         Main line and branches:       \$1,776,461 68         Through traffic       1,651 47         Total traffic       1,778,113 15         Total freight department earnings       1,778,113 15         Per train mile       \$1 47.60			
Through fares	Main line and branches:		
Per train mile	Through fares.         903 27           Total passenger fares         213,044 11           Rxpress.         46,133 65	,	
Per mile of road	Total passenger department earnings	\$304,291	35
Main line and branches:       \$1,776,461 68         Local traffic       1,651 47         Total traffic       1,778,113 15         Total freight department earnings       1,778,113 15         Per train mile       \$1 47.60		<b>,</b>	
Local traffic			
Per train mile \$1 47.60	Local traffic \$1,776,461 60 Through traffic 1.651 47		
Per train mile	Total freight department earnings	1,778,113	15
	Per train mile	)	

ANALYSIS OF EARNINGS.—ENTIRE LINES.

PASSENGER EARNINGS.

12	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.
Main line and branches			\$6,746,749 74	\$534,218 64	\$741,524 88	\$8,022,493 26		
Leased or proprietary roads: W. & St. P. B. R. Dakota Contral R'y. Princeton & Western R'y. St. Paul Eastern Grand Trank R'y.			334,946 52 154,466 22 823 22 18,050 18	18,408 00 12,759 88 2,891 76	51,282 77 84,994 92 705 38 8,311 64	404,587 29 252,219 50 1,528 58 24,253 58		
Total passenger department earnings	\$6,704,345 72	\$550,689 16	\$7,255,034 88	\$568,277 76	\$881,769 57	\$8,705,082 21	<b>\$0 87.44</b>	\$1,730 36
		FREIGHT	FREIGHT KARNINGS.  LOCAL traffic.	Throngh traffic.	Total traffic.	Total.	Per train mile.	Per mile of road,
Main line and branches  Leased or proprietary roads: W. & E. P. R. R. Dakota Central R. Princeton & Western R.y. St. Paul Eastern Grand Trunk R.y.					\$21,065,463 52 1,564,454 16 468,071 42 4,513 85 19,994 02	\$21,065,463 52 1,564,454 16 465,071 42 4,513 85 19,994 02		
Total freight department carnings			\$21,968,270 28	\$1,154,226 74	<b>51</b> ,154,226 74 <b>\$23</b> ,122,496 97 <b>\$23</b> ,122,496 97	\$23,122,496 97	.\$1 41.43	\$4,596 21

Total transportation earnings, entire line		\$31,827,579 18
Transportation earnings per mile of road	\$6,326 57 1 20.99	
Miscellaneous receipts from operating account, other than for transportation, as follows:  From rents of tracks, yards and terminals.  From rents not otherwise provided for.  From other sources.	•	
Total		<b>\$349,5</b> 73 <b>6</b> 3
Distribution of miscellaneous earnings between main line and leased or pro	prietary road	is:
	Total cellaneous. \$326,887 78	Actual for Michigan. \$11,290 10
C. & N. W. R'y Co. W. & St. P. R. R. Co. Dakota Central R'y Princeton & Western R'y St. Paul Eastern Grand Trunk R'y	13,114 19 9,174 56 56 40 390 70	411,000
Total miscellaneous earnings	\$349,573 63	\$11,290 10
Total earnings from operation of road.  Total earnings per mile of road (5,080.78 miles)	\$6,896 06 1 22 28	<b>\$82</b> ,177,152 81
Total earnings per train mile  Amount of taxable earnings for Michigan, being actual earnings in Michigan  Total taxable earnings per mile of road in Michigan, 521.19 miles	1 22.38	2,098,694 60
Receipts from investments included (as credits) in interest on funded and unfunded debt:		
Total income from all sources		<b>\$32,177,15</b> 2 81
Actual income for Michigan		2,093,694 60
analysis of expenses.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway.  Renewals of rails.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of dooks and wharves  Repairs and renewals of tolegraph.  Stationery and printing.		\$2,068,449 87 370,805 06 524,887 56 511,805 37 174,439 00 488,485 73 178,687 20 32,432 28 14,890 65
MAINTENANCE OF EQUIPMENT.		
Superintendence  Repairs and renewals of locomotives  Repairs and renewals of passenger cars  Repairs and renewals of freight cars  Repairs and renewals of work cars  Repairs and renewals of marine equipment  Repairs and renewals of shop machinery and tools  Stationery and printing  Other expenses  Total		\$243,285 27 1,032,882 79 331,267 11 1,667,850 01 34,083 36 2,349 51 89,577 58 21,196 49 141,678 10

### CONDUCTING TRANSPORTATION.

Superintendence		\$151,489 67 2,490,849 10
Engine and roundhouse men		2,490,849 10
Prol for locomotives		2.005.683.88
Water supply for locomotives		187,120 36
Water supply for locomotives Oil, tallow and waste for locomotives		187,120 36 72,344 81
Order and dries for locomorases		82.349 42
Train service		1,865,062 21 278,784 43
Train supplies and expenses		278,784 43
Switchmen, flagmen and watchmen		866,195 92
Telegraph expenses		405,524 87
Station service		1.543,848 67
Station annulies		181,926 80
Switching charges—balance		140,849 21
Car mileage—balance		309,021 59
Loss and damage		118 479 80
Injuries to persons.		116,479 80 826,882 18
Clearing wrecks		12.649 76
Operating marine equipment		8,447 14
Advertising		62,992 64
Outside agencies		811,821 46
Commissions		61,255 69
Stockyards and elevators		76 49
Rents for tracks, wards and terminals		
Rents for tracks, yards and terminals  Rent of buildings and other property.	}	57,900 28
Stationery and printing		118,157 55\
Constituting and printing and p		110,101 00
Total		\$11,496,658.88
		<b>411,130,000 00</b>
·		
GENERAL EXPENSES.		
Veneral datement.		
Salaries of several officers		#14K 704 00
Salaries of general officers		\$145,724 82
Salaries of general officers Salaries of clerks and attendants.		296,558 88
Salaries of clerks and attendants		296,558 88
Balaries of clerks and attendants. General office expenses and supplies		296,553 88 84,105 28 2,740 87
Balaries of clerks and attendants. General office expenses and supplies		296,558 88 84,105 28 2,740 87
Balaries of clerks and attendants. General office expenses and supplies		296,553 88 84,105 28 2,740 87 141,888 95 11.841 28
Balaries of clerks and attendants. General office expenses and supplies		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56
Salaries of clerks and attendants		296,553 88 84,105 28 2,740 87 141,888 95 11.841 28
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses Stationery and printing (general offices).  Other expenses Taxes		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Balaries of clerks and attendants. General office expenses and supplies		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses Stationery and printing (general offices).  Other expenses Taxes		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses Stationery and printing (general offices).  Other expenses Taxes		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices).  Other expenses Taxes.  Total  RECAPITULATION OF EXPENSES.		296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices).  Other expenses Taxes.  Total  RECAPITULATION OF EXPENSES.	Per cent of	296,553 88 84,105 28 2,740 87 141,888 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes.  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses.	296,553 8 84,105 28 2,740 87 141,384 28 1,805 55 1,142,422 89 \$1,826,532 98
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices). Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures	Per cent of expenses.	296,553 8 84,105 28 2,740 87 141,384 28 1,805 55 1,142,422 89 \$1,826,532 98
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment.	Per cent of expenses. 20.30 16.93	296,553 88 84,105 28 2,740 87 141,388 28 11,841 28 1,805 65 1,142,422 89 \$1,826,582 98
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation	Per cent of expenses. 20.30 16.93 54.16	296,553 88 84,105 28 2,740 87 141,384 25 11,805 56 1,142,422 39 \$1,826,532 96  \$4,309,882 72 3,683,850 21 11,496,658 88
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices). Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures	Per cent of expenses. 20.30 16.93	296,553 88 84,105 28 2,740 87 141,388 28 11,841 28 1,805 65 1,142,422 89 \$1,826,582 98
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes	Per cent of expenses. 20.30 16.93 54.16 8.61	296,553 8 84,105 28 2,740 87 141,383 28 11,805 55 11,142,422 89 \$1,826,532 98 \$4,309,882 72 \$,593,850 22 11,496,658 88 1,826,532 98
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes	Per cent of expenses. 20.30 16.93 54.16 8.61	296,553 88 84,105 28 2,740 87 141,384 25 11,805 56 1,142,422 39 \$1,826,532 96  \$4,309,882 72 3,683,850 21 11,496,658 88
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	Per cent of expenses. 20.30 16.93 54.16 8.61	296,553 88 84,105 28 2,740 87 141,388 97 141,388 97 11,841 22 1,805 65 1,142,422 89 \$1,828,582 98 \$4,309,882 72 3,563,850 22 11,496,658 88 1,826,532 98 \$21,226,924 80
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	Per cent of expenses. 20.30 16.93 54.16 8.61	296,553 8 84,105 28 2,740 87 141,383 28 11,805 55 11,142,422 89 \$1,826,532 98 \$4,309,882 72 \$,593,850 22 11,496,658 88 1,826,532 98
Salaries of cierks and attendants.  General office expenses and supplies Insurance	Per cent of expenses. 20.80 16.80 54.16 8.61	296,553 88 84,105 88 2,740 87 141,388 92 11,841 22 1,805 65 1,142,422 89 \$1,826,582 98  \$4,309,882 72 3,563,850 22 11,496,658 88 1,826,532 98  \$21,226,924 80 \$4,219 41
Salaries of cierks and attendants.  General office expenses and supplies Insurance	Per cent of expenses. 20.80 16.80 54.16 8.61	296,553 88 84,105 88 2,740 87 141,388 92 11,841 22 1,805 65 1,142,422 89 \$1,826,582 98  \$4,309,882 72 3,563,850 22 11,496,658 88 1,826,532 98  \$21,226,924 80 \$4,219 41
Salaries of cierks and attendants.  General office expenses and supplies Insurance	Per cent of expenses. 20.80 16.80 54.16 8.61	296,553 88 84,105 88 2,740 87 141,388 92 11,841 22 1,805 65 1,142,422 89 \$1,826,582 98  \$4,309,882 72 3,563,850 22 11,496,658 88 1,826,532 98  \$21,226,924 80 \$4,219 41
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenumles. Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes earnings.	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	296,553 88 84,105 88 84,105 88 2,740 87 1441,388 28 11,805 55 1,142,422 89 \$1,826,532 98 \$4,309,882 72 \$1,496,658 88 1,826,532 88 \$21,226,924 80 \$4,219 41 0 80,697 4,199,114 44 65,97
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenumiles. Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes to earnings. Not earnings per mile of road.	Per cent of expenses. 20.30 16.93 54.16 100.00	296,553 88 84,105 88 84,105 82 2,740 87 141,384 23 1,805 56 1,142,422 89 \$1,828,532 98 \$4,309,882 72 3,683,850 298 \$11,496,658 88 1,826,532 98 \$21,226,924 80 \$4,219 41 0 80,697 1,199,114 44 2,176 65
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenumles. Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes earnings.	Per cent of expenses. 20.30 16.93 54.16 100.00	296,553 88 84,105 88 84,105 88 2,740 87 1441,388 28 11,805 55 1,142,422 89 \$1,826,532 98 \$4,309,882 72 \$1,496,658 88 1,826,532 88 \$21,226,924 80 \$4,219 41 0 80,697 4,199,114 44 65,97
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenumiles. Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes to earnings. Not earnings per mile of road.	Per cent of expenses. 20.30 16.93 54.16 100.00	296,553 88 84,105 88 84,105 82 2,740 87 141,384 23 1,805 56 1,142,422 89 \$1,828,532 98 \$4,309,882 72 3,683,850 298 \$11,496,658 88 1,826,532 98 \$21,226,924 80 \$4,219 41 0 80,697 1,199,114 44 2,176 65

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: (In Michigan.)

Termini.	When built.	Miles.
Secanaba to Negaunee	In 1864	62.00
Negaunee to Junction beyond Ishpeming	In 1864	4.58 64.65
Marinette to Escariaba	Tn 1877	24.71
Drinneses to Menomines River	In 1880	8.13
Powers to Quinnesec Quinnesec to Menomines River Jecond Crossing of Menomines River to Crystal Falls	In 1882	12.20
ron River Junction to Stambaugh	In 1882	19.50
Naronta to Matropolitan	i in 1882 – i	34.86
ron River to Watersmeet unction near lahpeming to Republic Jlowry to Michigamme	In 1887	35.16
Junction near Ishpeming to Republic	In 1888	21.96
lowry to Michigamme	In 1888	10.44
Wabic to Champion	In 1888	1.23
Branches to mines off main line	At various dates	42.27
Branches to mines off main line	At various dates	31.42
Branches to mines off Kecanaba and Lake Superior Line	i At various datas	8.44
Branches to mines, Crystal Falls to Hemlock mine Branches to mines off Ashland division.	In 1891	15.00
Branches to mines off Ashland division.	At various dates	29.33 .52
Branches to industries off Ashland division.	At various dates	. 52
State line to Gogehio	In 1888	26.10
State line to Gogebic	In 1884	40.79
Watersmeet to Choate	In 1891	22.82
nterior Junction to Interior	In 1889	1.61
Craigsmers to Robbins	In 1892	3.47
Total		521.19

### MAIN LINE OR CONSOLIDATED BOAD.

### Road belonging to Chicago & Northwestern Railway Company.

Lines chartered as or consolidated with Chicago & Northwestern R'y Co.	Total.	Illi- nois.	Iowa.	Wis- consin.	Mich- igan.	Minne- sota.	South Dakota.	North Dakota
Chicago to Council Bluffs	491.00	137.88	353.12					
hicago to Freeport.	121.00	121.00						
deneva to Aurora	9.40	9.40						
Jeneva to St. Charles.	2.40	2.40						
Sycamore to Cortland	4.64	4.64		15.22				
Elgin to Williams Bay	51.04	35.82		15.22				
Elgin to Williams Bay Belvidere to Spring Valley South Bra. Junct. to River (Chicago)	75.78	75.78						
outh Bra. Junct. to River (Chicago)	4.50	4.50						
linton to Anamosa (Quarry)	73.57		73.57					
Stanwood to Tipton	8.50		8.50					
Out-off near Cedar Rapids	50.00		50.00					
Tama to Elmore	164.56		164 22			24		
Jewell Junction to Wall Lake Junction			73.68					
Eagle Grove to Hawarden	145.20		145.20					
Eagle Grove to Hawarden	64.00		64.00					
Boone to Coal Banks	3.25	1223	3.25					
Boone to Coal Banks	80.85		80.85					
Wall Lake to Moville			79.87					
Carroll to Kirkman	34.81		34.81					
Manning to Audubon	17.00		17.00					
Chicago to Ft. Howard	242.20	69.73		172.47				
Chicago to Ft. Howard. Appleton Water Power Extension Kenosha to Rockford.	3.63			3.63				
Aenosna to Rockford	72.10	44.03		28.07				
Chicago to Montrose	5.20 7.69	7 60						
Montrose to North Evanston	85.00	44 60		40.40				
Milwaukee to Fond du Lac	62.63			62 62				
Sheboygan to Princeton	78.40			78.40				
Milwaukee to Montfort	140.88			140.88				
Montfort to Galena	46.34	10.30		36.04				
Montfort to Woodman	30.50			30.50			1111111	
pswich to Platteville	4.00			4.00				
pswich to Platteville Lancaster Junction to Lancaster	12.04			12.04				
lanesville to Alton	6.10	0"E22Y24		6.10		.19		
Belvidere to Winona Winona Junction to La Crosse	227.00	21.00		205.87		.13		
Winona Junction to La Crosse	3.96			3.96				
Frempealeau to Galesville	0.71			0.11				
Evansville to Janesville Ft. Howard to Republic	200 64			15.68 49.45	150 10			
Clowry to Michigamme	10.44				10.44			
Wabic to Champion					1.23			
Powers to Watersmeet	104.33			13.73	90.60			
Stager to Crystal Falls	9.10				9.10			
Narenta to Metropolitan	34.86				34.86			
Branches to mines:	3.		********	-311000		77.00		
Off main line	42.27				42.27			
Off Escanaba & Lake Superior line	8.44				8.44			
Off Menominee River line	36.13			4.71	31.42			
Off Crystal Falls to Hemlock mine	15.00				15.00			
Off Ashland division	34.22			4.89	29.33			
Branches to industries off Ashland div.	21.44			20.92 319.24	.52			
Lake Shore Junct. to Ashland, Wis Monico Junction to Hurley, Wis	99 11				00.09			
Two Rivers Junct. to Two Rivers, Wis.	6 25			6 95				
Hortonville to Oshkosh, Wis-	23 10			23 10				
Eland Junction to Marshfield, Wis.	63.87			63.87				
Eland Junction to Marshfield, Wis North of Antigo to E. Bryant Switch	7.27			7.27				
Pratt Junction to Harrison	7.27 17.85			17.85				
Parrish Junction to Parrish	4.54			4.54				
Watersmeet to Choate	22.82				22.82			
Interior Junction to Interior	1.61				1.61			
Craigsmere to Robbins	3.47							
Hurley to end of track	12.97			12.97				
Potato River Junct, to end of track	2.60			2.60				
Extension through Sec. 34	1.34			1.34				
Total C. & N. W. R'y (chartered or )	3,782.29	593.97	1,163.12	1,503.54	521.19	.47		

Total length of road belonging to this company 3,782.29

Total length of road belonging to this company, in Michigan 521.19

Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated. 24

Aggregate length of tracks in Michigan belonging to this company, computed as single track 695.78

Gauge of track, 4 feet 8½ inches—3,766.29 miles. 3 feet—16.00 miles.

### Proprietary or leased roads operated by this company.

### Name, description and length of each:

Proprietary lines, viz:	Total.	Illi- nois.	Iowa.	Wis- consin.	Mich- igan.	Minne- sota.	South Dakota,	North Dakota,
Princeton & Western R'y	16.06			16.06				
Winona & St. Peters R. R. Winona to Watertown. Mankato Junetion to Mankato Sleepy Eye to Redwood Falls. Rochester to Zumbrota Eyota to Plainview.						288.50 3.75 24.40 24.48 15.01	34.48	
Eyota to Chatfield						11.46 46.40		
Dakota Central R'y.  Minnesota State Line to Pierre.  James Valley Junction to Oakes.  Watertown Junction to Watertown.  Watertown to Gettysburg.  Iroquois to Hawarden (State line)  Centerville to Yankton.  Doland to Groton							43.88 146.25 125.49 28.46	14.28
Total	1,188.47			16.06		414.00	744.13	14.28
Leased lines, viz.:  St. Paul Eastern Grand Trunk R'y Clintonville to Oconto Spurs	60.02			56.00 4.02				
Total	60.02			60.02				
Recapitulation.  C. & N. W. R'y (chartered or consolidated)  Proprietary lines Leased lines	3,782.29 1,188.47	l	1,163.12	1,508.54 16.06 60.02			744.13	14.28
Grand total	5,030.78	598.97	1,168.12	1,579.62	521.19	414.47	744.18	14.28

Number of bridges and trestles in Michigan.		Aggreg	ate
	Number.	Length,	feet.
Wooden bridges	. 30	3	2,690
Stone bridges	. 8	2	60
Iron bridges	. 1	l	1,807 701
Combination bridges	. (		
Wooden trestles	_ 303	3 2	7,089
Total.	_ 358	3	2,347

### Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Chicago, Milwaukee & St. Paul R'y at Balsam. Chicago, Milwaukee & St. Paul R'y at Menominee (3 crossings.) Chicago, Milwaukee & St. Paul R'y at Menominee (3 crossings.) Chicago, Milwaukee & St. Paul R'y at Antoine. Chicago, Milwaukee & St. Paul B'y at Wabic. Minneapolis, St. Paul & Sault Ste. Marie R. R. at Hermansville. Minneapolis, St. Paul & Sault Ste. Marie R. R. near Narenta (2 crossings.) Duluth, South Shore & Atlantic R. R. at Negaunee. Duluth, South Shore & Atlantic R. R. at Repaunee. Duluth, South Shore & Atlantic R. R. at Dishno. Duluth, South Shore & Atlantic R. R. at Dishno. Duluth, South Shore & Atlantic R. R. at Dishno. Useonsin Central R. R. atlantic R. R. at Dishno. Wisconsin Central R. R. atlantic R. R. at Dishno. Wisconsin Central R. R. at Benjamin mine spur at Anvil mine. Wisconsin Central R. R. at Benjamin mine spur at Colby mine. Duluth, South Shore & Atlantic R. R. at Jack Pot Mine spur at Imperial mine. Lake Superior & Ishpeming R. R. at Negaunee.	
Over: Duluth, South Shore & Atlantic R. R. at Negaunee (2 crossings). Duluth, South Shore & Atlantic R. R. at 8-10 miles west of Bessemer. Chicago, Milwaukee & St. Paul R. R. at Antoine. Wisconsin Central R. R. at 8-10 miles east of Siemens. Wisconsin Central R. R. at ironwood. Lake Superior & Ishpeming R. R. at Negaunee (2 crossings). Under: Duluth, South Shore & Atlantic R. R. near Wabic. Minneapolis, St. Paul & Sault Ste. Marie R. R. at Flat Rock.	
At what crossings are interlocking and derailing switches in operation? At Duluth, South Shore & Atlantic crossing, one mile east of Michigamme. At Chicago, Milwaukee & St. Paul crossing at Wablc. At Chicago, Milwaukee & St. Paul Republic branch crossing two miles east of Republic At Minneapolis, St. Paul & Sault Ste. Marie R'y near Narents.	
What pattern or patterns have you adopted? Union Switch & Signal interlocking switches.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings at which there are electric or automatic signals.	205 19 6
What pattern or patterns in use? Mills' improved air gate with double lock posts.	
Number of crossings of highway over or under railroad : over 2, under 7	9- 2
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blooked as required by act 174, session laws 1883? Yes.	
How are they treated? Wooden or iron blocking.	
Stations.	
Number of stations on whole lines at which there are buildings and agents	746 46
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	20,745 1,389
Classify your employée as per following list:	Number.
BaggagemenBrakemen	408 1,474
Brakemen. Conductors Engineers	1,474 799 1,177
Firemen Laborers.	1,305
Shopmen	4,368 785
Others	<b>5,39</b> 8

## REPAIRS AND RENEWALS. Fencing in Michigan.

Total miles required	Road bed and track.			
umber of track sections in Michigan	Road bed and track.		=	360.6
umber of track sections in Michigan rerage lengths of sections, miles rerage number of men in each section grapher of new ties part in whole line day				
umber of new ties put in whole his during umber of new ties put in track in Michiverage number of new ties per mile of reew rails put in track: Steel, tons, 19,242.1633, miles	ang		1,5	85 6.18 4.5 56,597 21,878 809 813.82 156.91
;	Bridges and culverts.		_	
mount of trestle work replaced with ear imber culverts replaced during the year With iron pipe—number With sewer pipe—number With timber—number New bridges built during the year—nur	r:			517 22 33
Location.	Kind.	Material.	Month built.	Feet in length
Pellington   Pellington   Pellington   Pellington   Persent City   Persent City   Persent City   Persent City   Persent City   Persent City   Pellington   Pellington   Persent City   P	ile ile ile ile ile ile ile ile ile ile	Wood	July October January January January January January January June June June July July July July July July July July	00 400 33 33 44 44 44 44 45 66 66 47 88 88 88 88 88

NOTE.—Wooden trestle approaches to truss and other large span bridges are counted as one structure and are included in the total number of trestles.

### ROLLING STOCK.

948 60 2	
948 60 2 1,010	
•	84.646.000.00
910	4210201000 00
20,269 20,269 2,881 6,895 4,351	150,000 00 6,080,700 00 864,800 00 1,792,700 00 652,650 00
289	811,500 00
. 85,911	\$11,636,650 00
	\$16,282,650 00
	894
orakes	863
	. 67
No. 147,	session laws
	150 20,299 2,881 6,895 4,351 546 289 85,911

### MILEAGE TRAFFIC, ETC.

Train mileage.  Miles run by passenger trains during the year		15,682,502	n Michigan. 404,634 1,133,958 94,240
Total mileage of trains earning revenue		26,304,524	1,632,832
Passenger traffic.—Entire lines	•		
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	14,282,28		Rate.
Number of passengers carried one mile.  Average distance carried.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.	951,238,58	3 . 24.899	\$0 50.396 02.199 02.055 02.065

### Passenger traffic.—In State of Michigan.

80 76.381 02.705 02.928 02.928
Bate.
\$1 47 00.82 01.00 00.99
-

### FREIGHT TRAFFIC AOVEMENT.—ENTIRE LINES.

### Company's material excluded.

<b>.</b>	Freight	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture :				
Grain	1,505,493 95,982	502,536 189,968	2,008,081	12.78
FlourOther mill products	95,982	189,968	285,950	1.81
Other mill products	62,141	76,925	189,066	.88
Hay		114,588 1,125	202,802	1.29
Tobacco	452	1,123	7,865 899	.05 .01
Cotton. Fruit and vegetables.	166,604	75,983	242,587	1.54
Potatoes.	7,781	1,717	9,448	.06
Products of animals:				
Live stock	452,509	238,496	691,005	4.88
Dressed meata. Other packing house products Poultry, game and fish.	51,091	11,300	62,391	.40
Other packing house products	182,638	1 58.881	186,469	1.18
Wool	12,672 4,775	7,582	20,204	.18 .07
Wool	32,864	5,685 8,258	41,122	.26
Products of mines:				
Anthracite coal	490,268	52,764	543,027	3.44
Bituminous coal	1,211,768	284,197	1,445,965	9.17
Coke	110,357	873	111,230	.70 22.81
Ores Stone, sand and other like articles	3,515,626	2,822 36,181	8,518,448 529,878	22.81
Salt	498,192 60,238	1,865	62,098	8.36 .89
Products of forest:			.	
Lumber	810,582	215,095	1,025,677	6.50
Logs	20,047		20,047	.18
Shingles. Other forest products.	1,110 789,984	285 36,020	1,395 825,954	.01 5.24
Manufactures:	,	1	,	
Petroleum and other oils	174.448	4,162	178,605	1.13
Gm as a	91 809	6,192	38,084	.24
Naval stores	394		394	
Iron, pig and bloom	175,569	16,988	192,557	1.22
Naval stores Iron, pig and bloom Iron and steel rails Other castings and machinery	38,249 103,178	186	88,435	.24 .71
Other castings and machinery	103,178	8,639	111,817	71
Dar and super medal	1 210,001	13,475 29,922	228,806	1.45 1.88
Cement, brick, and lime	209,029	29,922	289,451 90,555	.57
Agricultural implements.  Wagons, carriages, tools, etc.  Wines, liquors and beers	78,220 110,785	12,385 15,308	126,093	.80
Wines, liquors and beers	210,224	5,117	215.841	1.87
Household goods and furniture	91,459	9,684	101,148	.64
Merchandise	861,523	182,502	1,044,025	6.62
Miscellaneous:				
Other commodities not mentioned above	1,070,577	55,346	1,125,923	7.14
Total tonnage	18,544,398	2,228,244	15,772,642	100.

## MICHIGAN RAILROAD RETURNS, 1896.

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN. .

Company's material excluded.

Common ditan	Freight originating	Freight re- ceived from connecting	Total freigh	nt tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	349	946	1,295	.03
Flour Other mill products	1,092	1,589 697	2,681 1,188	.07
Hay	1.614	5,594	7,208	.03
Tobacco	1,012	0,002	1,200	.10
Tobacco Fruit and vegetables	1,538	224	1,757	.04
Potatoes.	117	84	201	.01
Products of animals:				
Live stock		237	999	.00
Other packing house products	166 194	345 112	511 306	.01
Ponitry came and fish	198	114	202	01
Other packing house products Poultry, game and fish Hides and leather	126		126	
Products of mines:				
Anthracite coal	7,005	2,695	9,700	.24
Bituminous coal	42,153	259	42,412	1.0
Ores	3,402.619		8,402,619	84.60
Ores Stone, sand, and other like articles Salt	3,155 94	1,416	4,571 94	.11
Products of forest:	İ			
Lumber	183,699	6,506	140,205	8.4
Logs	10,571		10,571	.20
Shingles Other forest products	308	15	823	.01
Other forest products	857,545	346	857,891	8.9
Manufactures: Petroleum and other oils	871	12	883	.ac
Sugar.		17	17	
Iron, pig and bloom	3,520	1 15	8,535	.0:
Iron and steel rails	1 1		i , i	
Other castings and machinery	1,207	183	1,390	.0
Bar and sheet metals	138	18	151	
Cement, brick and lime	824 16	783	1,557	.0
Wagons, carriages, tools, etc.	48	83	76	
Wines, liquors and beers.	1,830	82	1,892	.0:
Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture.	1,893	95	1,988	.õ.
Merchandise	10,977	1,016	11,993	.80
Miscellaneous: Other commodities not mentioned above	12,208	1,842	13,550	.84
Total tonnage	3,997,266	24,598	4,021,864	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depet, or at the office of such express companies?

American Express Co.

By an agreement with American Express Company of date April 16, 1894, to be in force until the first day of April, 1895. The C. & N. W. R'y Co. agrees to transport the freight of the express company over all lines operated by the railway company, aggregating 5,066 miles, for an annual payment of \$550,659.96 (with provision for an extra payment for facilities on special trains), for an estimated limited tonnage, and an agreed schedule of rates for exceptional excess of tonnage.

The express company does a miscellaneous business properly belonging to express business.

They deliver their freight into this company's cars.

Number of miles of telegraph on your road, and to whom does it belong?

The entire length of road is afforded telegraph facilities by the lines of the Western Union Telegraph
Company in which this company owns certain wires, or rights of their use.

#### Transportation companies.

#### SLEEPING, DRAWING BOOM AND PALACE CAR COMPANIES.

What sleeping, drawing room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report? Sleeping cars owned by Wagner Palace Car Co. have been in use on portions of this company's road in Bichigan. The car company maintains the cars, and fixes and collects the charges from passen-

gers for accommodations in same.

For the use of the cars the C. & N. W. R'y Co. pays a mileage.

This company has paid the Wagner Palace Car Co. of New York for mileage of their cars in Michigan during the year, \$2,321.49.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

This company has no cars of other companies or lines in use exclusively for traffic between local points in the State of Michigan.

Cars of other companies coming into the State with inter-state freight may do some business between local points, but the mileage applicable to such limited traffic cannot be separated.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

May 19, John Dadusic, Ironwood. Fell from car. Want of caution.
June 7, M. Murek, Powers. Walking on track, struck. Carelessness.
June 19, unknown man, Vulcan. Walking on track, struck. Carelessness.
June 22, G. Madsen, Escanaba Walking on track, struck. Carelessness.
July 7, B. Snow, car repairer, Escanaba. Working under train which moved. Want of caution.
July 8, John Stonehouse, engineer, Trombly. Engine exploded. Accidental.
July 19, M. M. Michaels, Marenisco. Crossing track, struck. Want of caution.
July 20, P. Johnson, Kloman. Walking on track, struck. Carelessness.
July 26, P. Manning, Powers. Getting on moving train.

#### INJURED.

January 14, E. Hendricks, fireman, Antoine. Fell from engine tank; want of caution.

January 21, N. DeBeck, conductor, Menominee. Derailment; accidental.

February 10, M. Jargers, switchman, Iron Mountain. Coupling cars; want of caution.

March 5, S. J. Kerr, switchman, Ironwood. Hand on brake wheel which flew; want of caution.

April 2, J. DeLoria, brakeman, Beaver Siding. Jumped from train and fell; want of caution.

June 18, Flora McKinnon, Metropolitan. Ran in front of train; ran over; carelessness.

July 4, P. Barchiera, Negaunee. Walking on track, struck; carele sness.

July 7, H. Godette, car repairer, Escanaba. Working under train, which moved; want of caution.

July 8, F. C. Buell, fireman, Trombly. Engine exploded; accidental.

July 8, W. E. Rogers, conductor, Trombly Engine exploded; accidental.

July 8, G. Gorgens, brakeman, Trombly. Engine exploded; accidental.

August 24, M. H. King, Siding No. 5. Getting on moving train; fell; carelessness.

August 26, E. Hall, engineer, Hazel Jinction. Logs rolled off cars, striking engine; accidental. August 26, T. G. Atkinson, Hazel Jinction. Logs rolled off cars, striking engine; accidental. August 26, E. Hickey, fireman, Hazel Jinction. Logs rolled off cars, striking engine; accidental. August 29, Jno. Burns, Stager. Welking on track; struck; carelessness. September 28, Chas; Parell, switchman, Iron Mountain. Uncoupling cars; want of caution. October 15, J. Jerewsky, Ironwood. Crawling under cars; carelessness. November 17, A. Sara; laborer, Mansfield Mine. Thrown down in car, by jar; accidental. November 17, A. Johnson, laborer, Mansfield Mine. Thrown down in car, by jar; accidental. November 27, J. B. Aiken, brakeman, Atkinson. Coupling cars; lumber struck knee; want of caution.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Comment and and don't		Killed.			Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.	
Coupling cars Derailments Falling from trains. Getting on and off trains		1		1	8 1 2 1		
Highway crossings Miscellaneous Trespassers on tracks		2	2 4	1	11	4	
Total		3	6	2	18	4	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	. 9
Number of persons injured during the year.	24
Number of casualties purely accidental.	11
Number resulting from lack of caution, carelessness or misconduct	22
Trespassers and tramps killed or injured.	8

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen		3	8
Conductors. Engineers	1	2	2
Firemen Laborers Shopmen		8	
Yardmen		4	1
Total	2	18	20

STATE OF ILLINOIS, COUNTY OF COOK. }88.

M. Hughitt, president, and J. B. Redfield, auditor, of the Chicago and Northwestern Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1893, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

MARVIN HUGHITT, J. B. REDFIELD.

Subscribed and sworn to before me this 19th day of February, A. D. 1897.

J. F. CLEVELAND, Notary Public.

#### ANNUAL REPORT

OF THE

### CHICAGO & WEST MICHIGAN RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed April 14, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Pice President, EUGENE V. R. THAYER, Boston, Mass.

Secretary, CHARLES MERRIAM, Boston, Mass.

Auditor, U. B. ROGERS, Grand Rapids, Mich.

Treasurer, CHARLES MERRIAM, Boston, Mass.

General Manager, CHARLES M. HEALD, Grand Rapids, Mich.

General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.

General Superintendent, F. M. DRAKE, Grand Rapids, Mich.

General Auditor, C. W. COURTRIGHT, Boston, Mass.

Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.

Superintendent of Telegraph, F. H. CARR, Grand Rapids, Mich.

Assistant Treasurer, JAMES R. HOWARD, Grand Rapids, Mich.

General Passenger Agent, GEO. DEHAYEN, Grand Rapids, Mich.

General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.

Solicitor, F. A. NIMS, Muskegon, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
CHARLES MERRIAM, Boston, Mass.
A. H. HARDY, Boston, Mass.
F. H. DAMON, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
C. F. ADAMS, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire, April 21, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 1, 1881.
Number of stockholders at date of last election: 645.
Number of stockholders in Michigan at same date: 6.
Amount of full paid stock held in Michigan at same date: \$7,100.
Date of annual meeting of stockholders: Third Wednesday in April.
Fiscal year of company ends: December 31.
General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

	NERAL I		200 AC \	Debit.	Credit.
Total earnings from operation { C. & W. M. M. M. M. M. M. M. M. M. M. M. M. M.	R. B. n.	p. 44 of lat123,7	753 12 }	\$1,321,475 86	\$1,642,617 10
Net income					\$821,141 22
Interest on funded debtInterest on unfunded debt				\$408,864.26	3
Balance for the year					\$85,726 76 78,734 05
Balance foward to next year					\$11,992 71
ANALYSI	S OF CA	PITAL STOCK.			
Amount authorized by charter or articles of C. & W. M. R.y. C. & N. W. B. R.	associati	on:		\$7,525,000 00 1.500.000 00	}
Par value of shares		74.482	\$100 00		· \$9,025,000 00
Amount paid in on common  Amount paid in on shares not issued—numb	oer 636	·		\$7,448,200 00 68,600 00	,  -  -
Total amount paid in, as per books of the	e compan	y			7,511,800 00
Paid in per mile of road owned by company	, 581.114 m	iles		·	\$12,926 55
ANAT WOTE		MI A COOTINING			
ANALISIS	FUNDED 1	T ACCOUNTS.			
	1	1	ī -		
Class, character and date of issue.	Rate of interest.	When due.	When	re payable.	Amount out- standing.
Grand Rapids, Newaygo & Lake Shore R. R. 2d div. 1st mortgage bonds on 10 miles of road, Newaygo to White Cloud, Mich.	75	T 1 100K	Union	Trust Co.,	*10,000,00
Chicago & West Michigan R'y Co. mort- gage on 488.501 miles of consolidated line,	"	June 1, 1905	Comp	any's office.	\$19,000 00
subject to above mortgage Chicago & North Michigan R. R. 1st mort- gage on 92.613 miles of road, Traverse City to Elk Rapids to Bay View, principal and interest guaranteed by the Chicago & Worth Michigan P.		Dec. 1, 1921	Bost	on, Mass	5,758,000 00
to Elk Rapids to Bay View, principal and interest guaranteed by the Chicago & West Michigan R'y.  The Michigan Equipment Co. Ltd. 1st mortgage on rolling stock purchased with proceeds of bonds, principal and interest guaranteed by the Chicago & West Michigan Bayes.	۰,	May 1, 1931	Bosto	n, <b>Mass.</b>	1,667,000 00
guaranteed by the Chicago & West Michigan R'y Co Chicago & West Michigan R'y, ten-year coupon scrip, issued Nov. 1, 1894, in payment of 50% of C. & N. M. 5% bonds, int. due	6%	June 1, 1902	Bosto	n, <b>Mass</b> .	298,000 00
of 50% of C. & N. M. 5% bonds, int. due Nov. 1, 1894	5≰	Nov. 1, 1904	Bosto	n, Mass	20,837 50
Nov. 1, 1894	· .	Dec. 1, 1904		n, Mass	70,512 50
& W. M. 5% bonds, int. due Dec. 1, 1894 Issued May 1, 1895, in payment of 50% of C. & N. M. 5% bonds, int. due May 1, 1895	5%	May 1, 1905	Bosto	n, Mass	20,812 50
Issued Dec. 1, 1895, in payment of 50% of C. & W. M. 5% bonds, int. due June 1, 1895  Issued Nov. 1, 1895, in payment of 50% of C. & N. M. 5% bonds, int. due Nov. 1, 1895  Issued Dec. 1, 1895, in payment of 50% of C. & W. M. 5% bonds, int. due Dec. 1, 1895  Issued Dec. 1, 1895, in payment of 50% of C. Lesned May 1, 1896, in payment of 50% of C.	5≴	June 1, 1905	Bosto	n, Mass	70,450 00
issued Nov. 1, 1895, in payment of 50% of C. & N. M. 5% bonds, int. due Nov. 1, 1895	5≴	Nov. 1, 1905	Bosto	n, Mass	20,725 00
& W. M. 5% bonds, int. due Dec. 1, 1895	5≰	Dec. 1, 1905	Bosto	n, Mass	70,212 50
& N. M. 5¢ honds, int. dna May 1, 1896	5≴	May 1, 1906	Bosto	n, Mass	. 20,675 00
Issued June 1, 1886, in payment of 50% of C. & W. M. 5% bonds, int. due June 1, 1896 Issued Nov. 1, 1896, in payment of 50% of C.	5≴	June 1, 1906	Bosto	n, Mass	69,962 50
Assued Nov. 1, 1896, in payment of 50% of C. & N. M 5% bonds, int. due Nov 1, 1896	5≰	Nov. 1, 1906	Bosto	n, Mass	20,237 50
& W. M 5% bonds, int. due Dec. 1, 1896	5≴	Dec. 1, 1906	Bosto	n, Mass	65,650 00

\$8,187,075 00

### UNFUNDED DEBT.

For what incurred.	7-A		
FOR WHAT INCUITED.	Is the same to be funded or how liquid	#1901	Amount.
For construction For equipment For real estate. For renewals For miscellaneous For current balances	To be paid from earnings		\$458,620 8
Total unfunded debt			\$458,620 8
	RECAPITULATION.		
Potal funded debt			\$8,187,075 0 458,620 8
Total debt liabilities	•••••••••••		\$8,645,695 8
Amount of debt liabilities per mi Total amount of stock and debt. Stock and debt per mile of road,	le of road, 581.114 miles		14,877 7 16,157,495 8 27,804 8
Construction account:	BENERAL BALANCE SHEETDr.		911 107 100 1
C: ARN. M. K. K.			1 MIN XXII (
Kaninment account. Michigan Ka	quipment Co. (L'td.)	\$21 90 33,600 00 810,000 00	293,000 0
		810,000 00	843,621 8
Cash items: Cash Bills receivable Due from agents		\$99,375 52 208,727 04 82,260 88	040.000.4
Other assets:  Materials and supplies  Sinking funds  Debit balances from companies	and individuals	\$80,214 79 4,000 00 163,477 29	340,868 4
Income account			247,692 0 11,992 7
Total			<b>816,157,49</b> 5 8
	GENERAL BALANCE SHEET.—Cr.		
•			\$7,511,800 0
Funded debt		\$7,787,000 00 450,075 00	8,187,075 (
Unfunded debt: Interest unpaid Vouchers and accounts		\$216,868 08 195,780 04	
Other liabilities (list as follows): Net traffic balances due other c Sinking fund (Michigan Equip:	: ompanies ment Co., limited)	25,972 18 20,000 00	458,620 3
Total			16,157,495 8
	COST OF ROAD AND EQUIPMENT.		
	PURCHASED BY PRESENT COMPANY.		
When purchased: October 1, 18 Original cost to present company Amount expended since purchase Amount expended since purchase Total cost to date of report Average cost per mile of road (no			\$8,578,430 & 3,070,017 0 962,497 & 12,610,945 7 25,815 6 11,721,180 1
1.4	·		

### MICHIGAN RAILROAD RETURNS, 1896.

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

· SLAIN LIAM.		
Extensions and new sidings.	\$19,280 80 15,774 28	
New buildings	15,774 28	\$35,055 06
		***************************************
Branciers.		
Right of way		1,578 88 17,100 t4
Right of way		17,100 54
Total charges		\$58,728 95
Total sharese to property assumpt as above	959 798 Q5	
Total charges to property account as above.  Property sold and credited	\$53,728 95 25 00	
Net addition to property account		53,708 95

ANALYSIS OF BARNINGS.—IN STATE OF MICHIGAN.

Pabbenger Barnings.

	Local fares.	Through fares.	Total passen. Express and gen fares. baggage.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.
Main line and branches.	\$448,090 96	\$7,402 11	8455,498 07	\$30,258 55	\$58,967 84	\$639,718 96	\$7 O\$	\$1,188.73
seased or proprietary roads: C. & N. M. B. B., north of parallel 44 of latitude	44,591 10		44,591 10	6,007 21	8,872 72	50,061 08		687 71
Total passenger department earnings	\$492,682 06	\$7,402 11	\$500,084 17	\$36,855 76	80 078,236	\$596,779 99	85 ET	\$1,828 43
		PREIGHT	FREIGHT HARNINGS.					
		Local traffic.	Throngh traffic.	Total traffic.	Other sources, freight department.	Total	Per train mile.	Per mile of road.
Main line and branches		\$841,757 96	\$1,265,158	\$863,063 10	\$1,728 46	\$870,776 56	12	\$1,917 86
seased or proprietary roads: U. & N. E. B., north of parallel 44 of latitude		64,692 09		64,692 09		64,692 09		698 52
Total freight department earnings		\$906,450 05	\$21,295 14	\$927,745 19	\$7,723 46	\$985,468 65	22	. \$2,616 38

### Analysis of Earnings.—Entire Lines.

•	
Main line and branches:	2
Total passenger fares	<u>.</u>
Express and baggage 38,652 7 Mails 66,436 8	7
Total passenger department earnings	<b>\$639</b> ,751 <b>5</b> 8
Per train mile         \$0.8           Per mile of road         1,100.9	
FREIGHT BARNINGS.	
Main line and branches:       \$970,350 2         Local traffic.       22,911 7	7 2
Total traffic. \$998,231 9 Other sources, freight department. 8,300 7	9 7
Total freight department earnings	1,001,571 76
Per train mile	3
Total transportation earnings, entire lines: C. & W. M. R'y \$1,517,570 2 C. & N. M. R. R. 123,753 1	2
Transportation earnings per mile of road \$2,824 4 Transportation earnings per train mile 10	- 1,641,323 84 4
Miscellaneous receipts from operating account, other than for transportation, as follows From other sources	: 1,298 76
Total	
Total earnings from operation of road:	
Total earnings from operation of road: C. & W. M. R'y \$1,518,863 9 C. & N. M. R. R 123,753 1	8
Total earnings per mile of road \$2,826 6	- 1,642,617 10 7
Total earnings per mile of road	1,411,698 01 3,109 23
Total income from all sources	8,109 23 1,642,617 10
C. & W. M. B'y \$1,411,698 0 C. & N. M. R. R. 123,753 1	l 2
	1,535,451 18
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway. Renewals of rails. Renewals of ties. Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of dooks and wharves. Repairs and renewals of telegraph. Stationery and printing. Other expenses.	\$186,829 87 15,460 26 104,888 95
Repairs and renewals of bridges and culverts	16,987 24 12,591 29 20,008 80
Repairs and renewals of buildings and fixtures  Repairs and renewals of docks and wharves	20,008 80 1,326 80
Repairs and renewals of telegraph	3,194 29 358 10 5,243 98
Total	
MAINTENANCE OF EQUIPMENT.	. \$5,819 90
Repairs and renewals of locomotives	63,401 61 38,043 23
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewal of freight cars Repairs and renewals of work cars Repairs and renewals of both machinery and tools	71,446 66
Repairs and r-newals of shop machinery and tools.  Stationery and printing	1,118 28 2,972 77 621 43
Other expenses	6,552 82
Total	\$189,976 70

### CONDUCTING TRANSPORTATION.

~ · · ·	
Superintendence.  Engine and roundhouse men	. \$21,452 46
Engine and roundhouse men	\$21,452 46 122,814 59 129,081 22
Fuel for locomotives	. 129,081 23
Water supply for locomotives	. 10,715 41
Fuel for locomotives Water supply for locomotives Oil, tallow and wate for locomotives. Other supplies for locomotives.	8,861 99
Other supplies for locomotives	. 1,321 23
Train service. Train supplies and expenses Switchmen, flagmen and watchmen.	1,321 23 90,793 05 20,818 75
Train supplies and expenses	. 20,818 75
Switchmen, flagmen and watchmen	52,396 89 24,960 58
Telegraph expenses	
Station service	. 104,167 66
Station supplies	104,167 66 8,275 44 4,120 48 14,017 31 6,227 89
Car mileage—balance	. 4,120 48
Hire of equipment Loss and damage	. 14,017 31
Loss and damage.	. 6,227.89
Injuries to persons	. 9.000 40
Clearing wrecks	. 891 10
Advertising	7,104 24 18,213 23
Outside agencies	. 18,213 28
Commissions Rents for tracks, yards and terminals Rent of buildings and other property (less) Stationery and printing	. 938
Rents for tracks, yards and terminals.	10,332 90
Rent of buildings and other property (less)	1,710 61
Stationery and printing	17,890 17
Other expenses	229 56
Total	\$667,590 78
General Expanses.	
Salaries of general officers	. \$17,388 32
Salaries of general officers Salaries of clerks and attendants	\$17,388 <b>32</b> 23,532 78
Insurance	2,118 54 6,817 71 5,534 97
Law expenses.	5.534.97
Insurance Law expenses Stationery and printing (general offices) Other expenses	2,825 82
Other expenses	1,671 62
Taxes	38,194 06
Total	\$97.073 82
Total	\$97,078 82
Total	\$97,073 82
Total	\$97,078 82
	\$97,073 82
RECAPITULATION OF EXPENSES.	
RECAPITULATION OF EXPENSES.  Per cent o	ł
RECAPITULATION OF EXPENSES.	ł
RECAPITULATION OF EXPENSES.  Per cent of expenses.	f #986.884.58
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	f #986.884.58
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.8	f #986.884.58
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.8	f #986.884.58
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.8	\$ \$366,884 58 7 189,976 70 2 667,590 78
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 27.7  Maintenance of equipment 14.8  Conducting transportation 50.5  General expenses, including taxes 07.8	\$ \$366,884 58 7 189,976 70 2 667,590 78 97,078 82
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,884 58 189,976 70 2 667,590 78 5 97,073 82 \$ \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,884 58 189,976 70 2 667,590 78 5 97,073 82 \$ \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,884 58 189,976 70 2 667,590 78 5 97,073 82 \$ \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,884 58 189,976 70 2 667,590 78 5 97,073 82 \$ \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,884 58 189,976 70 2 667,590 78 5 97,073 82 \$ \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 27.7  Maintenance of equipment 14.8  Conducting transportation 50.5  General expenses, including taxes 07.8	\$ \$366,884 58 189,976 70 2 667,590 78 5 97,073 82 \$ \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 27.7  Maintenance of equipment 14.8  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line	\$ \$366,834 58 7 189,976 70 2 667,590 78 5 97,013 82 91,321,475 88 2,274 03 1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,834 58 7 189,976 70 2 667,590 78 5 97,013 82 91,321,475 88 2,274 03 1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Tot	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Tot	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Tot	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 27.7  Maintenance of equipment 14.8  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Tot	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Tot	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 70-  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses for Michigan 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Total proportion of expenses 15-  Tot	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 07.8  Total operating expenses and taxes per mile of road 00-corating expenses and taxes per train mile run, for trains earning revenue, 1,545,44 miles.  Proportion of operating expenses and taxes for Michigan, main line 15-corating expenses to earnings, including taxes 80.4  Net earnings per mile of road 80.4  Net earnings per mile of road 80.4  Net earnings per train mile 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-co	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 07.8  Total operating expenses and taxes per mile of road 00-corating expenses and taxes per train mile run, for trains earning revenue, 1,545,44 miles.  Proportion of operating expenses and taxes for Michigan, main line 15-corating expenses to earnings, including taxes 80.4  Net earnings per mile of road 80.4  Net earnings per mile of road 80.4  Net earnings per train mile 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-corating 15-co	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings, including taxes 80.4  Not earnings per mile of road 80.4  Not earnings per train mile 80.4  DESCRIPTION OF ROAD.	\$ \$366,894 58 7 189,976 70 2 657,590 78 5 97,073 82 0 \$1,321,475 85 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 07.8  Total operating expenses and taxes per mile of road 0.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44 miles.  Proportion of operating expenses and taxes for Michigan, main line 15.4  Total proportion of expenses for Michigan 16.4  Total proportion of expenses for Michigan 16.4  Not earnings per mile of road 16.4  Not earnings per mile of road 16.4  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 1883.	\$ \$366,834 58 189,976 70 2 657,590 78 5 97,073 82 2 2,274 03 3 1,243,091 68 \$ 1,243,091 68 5 552 64 21
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles  Proportion of operating expenses and taxes for Michigan, main line 100.0  Total proportion of expenses for Michigan 100.0  Description of expenses to earnings, including taxes 80.4  Not earnings per mile of road 100.0  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 1883.	\$ \$966,894 58 \$ \$966,894 58 \$ 189,976 70 \$ 667,590 78 \$ 97,073 82 \$ \$1,321,475 88 \$ 2,274 03 \$ 1,243,091 68 \$ \$1,243,091 68 \$ 552 64 \$ 21  Miles.
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles  Proportion of operating expenses and taxes for Michigan, main line 100.0  Total proportion of expenses for Michigan 100.0  Description of expenses to earnings, including taxes 80.4  Not earnings per mile of road 100.0  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 1883.	\$ \$366,834 58 \$ \$366,834 58 \$ 7 189,976 70 \$ 667,530 78 \$ 97,013 82 \$ \$1,321,475 88 \$ 2,274 03 \$ 1,243,091 68 \$ \$1,243,091 68 \$ 21 \$ \$1,243,091 68 \$ 31,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles  Proportion of operating expenses and taxes for Michigan, main line 100.0  Total proportion of expenses for Michigan 100.0  Description of expenses to earnings, including taxes 80.4  Not earnings per mile of road 100.0  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 1883.	\$ \$366,834 58 \$ \$366,834 58 \$ 7 189,976 70 \$ 667,530 78 \$ 97,013 82 \$ \$1,321,475 88 \$ 2,274 03 \$ 1,243,091 68 \$ \$1,243,091 68 \$ 21 \$ \$1,243,091 68 \$ 31,243,091 68
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings, including taxes 80.4  Not earnings per mile of road 80.4  Not earnings per train mile 80.4  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 1883.  MAIN LINE.  Miles  In Michigan, from Indiana State line to Traverse City 285.3  In Indiana from Michigan State line to La Crosse 34.4	\$ \$366,884 58 \$ 189,976 70 \$ 657,590 78 \$ 97,073 82 \$ 1,321,475 88 \$ 2,274 03 \$ 1,243,091 68 \$ \$ 1,243,091 68 \$ 5 1,243,091 68 \$ 6 552 64 \$ 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
RECAPITULATION OF EXPENSES.  Per cent of expenses  Maintenance of way and structures 27.7  Maintenance of equipment 14.3  Conducting transportation 50.5  General expenses, including taxes 77.8  Total operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per mile of road 100.0  Operating expenses and taxes per train mile run, for trains earning revenue, 1,545,44  miles  Proportion of operating expenses and taxes for Michigan, main line 100.0  Total proportion of expenses for Michigan 100.0  Description of expenses to earnings, including taxes 80.4  Not earnings per mile of road 100.0  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 1883.	\$ \$366,884 58 \$ 189,976 70 \$ 657,590 78 \$ 97,073 82 \$ 1,321,475 88 \$ 2,274 03 \$ 1,243,091 68 \$ \$ 1,243,091 68 \$ 5 1,243,091 68 \$ 6 552 64 \$ 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

#### RRANCHES.

BRANCHES.		
From Allegan to Pentwater From Big Rapids Junction to Big Rapids From Mears to Hart From Kirk's Junction to Muskegon From Pickands to Fruitport From Macatawa Junction to Ottawa Beach From Clary to Honor From Muskegon to Port Sherman	98.55 51.60 3.78 11.98 1.76 6.18 9.62 5.21	
Total length of branches owned by company		188.68
Total length of branches owned by company in Michigan	188.68	
Total length of road belonging to this company		488.50
Total length of road belonging to this company in Michigan	454.04	
enumerated. Aggregate length of tracks in Michigan belonging to this company, computed track.		609.05
Gauge of track, 4 feet 8½ inches.	=	
Proprietary or leased roads operated by this company,		•
	tal miles. In	Michigan.
Name, description and length of each: Chicago & North Michigan R. B., north of parallel 44 of latitude	92.613	92.613
Total miles operated by the company		92.613
If north of parallel 44 of latitude: Yes.		
Give date road commenced to be built: May 15, 1891.		
Give date road completed: July 15, 1892.		
Give date road commenced to be operated: June 26, 1892.		
Where built from and to: Traverse City to Bay View, 79.021; Elk Rapids to Williamsburg, 9.512; Ironton	to Cherrie, 4	.080.
Give exact number of miles: 92.613.		
Number of bridges and trestles in Michigan.		Aggregate
Wasder hulders	Number. le	ngth, feet.
Wooden bridges	7 1	6861/4 20
Stone bridges Iron bridges Combination bridges	21	20 2,783 688
Wooden trestles	164	19,782
Total	197	28,909%
Draw bridges in Michigan.		
How many on your line		8
1. St. Joseph, 1889		Feet. 284
2. Grand Hapids, 1882 3. Muskegon, 1891		162
3. Muskegon, 1891		46 46
5. Elk Rapids, 1892 6. Charlevoix, 1892		101
Character of structure: Nos. 1, 2, 6 through trusses, two openings; No. 5 through girder, one opening.		214 nd 4, deck

Material of which constructed: Nos. 1, 3, 4, 5, 6, iron; No. 2, iron and wood.

Height above water, and depth of water under bridge:	Feet above	Water,
No. 1	water.  18 13 74 64 4 13	feet deep. 15 8 4 6 10
How swung, by engine or hand power? Hand power.	<del>-,</del>	
Approaches straight or curved? Nos. 1 and 2 curved, 3, 4, 5, 6, straight.		
Do you require all trains to come to full stop before crossing a draw, and how Yes; flagged by watchmen.	are they sign	alled?
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? South Haven & Eastern R. R. at Hartford. Michigan Central R. R. at Grand Junction. Lake Shore & Michigan Southern R. R. near Grandville. Grand Rapids & Indiana B. R. at Godfreys, Grand Rapids, Mill Creek and T. Flint & Pere Marquette R. R. at Baldwin. Manistee & Grand Rapids R. R. at Canfield. Manistee & Luther R. R. at Peters. Manistee and North Eastern R. R. at Bear Creek, Manistee Crossing and Infarcadia & Betsey River R. R. at Henry. Ann Arbor R. R. at Thompsonville. Toledo, Saginaw and Muskegon R. R. at Muskegon and Sparta. Detroit, Grand Haven & Milwaukee R. R. at D. & M. Junction.	raverse City. erlochen.	
What railroads cross your road either over or under your grade in this State, s Under: M. C. R. R. 1½ miles south New Buffalo.	and where?	
At what crossings are interlocking and derailing switches in operation?  S. H. & E. R. R. at Hartford. M. C. R. R. at Grand Junction. L. S. & M. S. R. Y. near Grandville. G. R. & I. at Godfrey's, Grand Rapids and Traverse City. F. & P. M. R. R. at Baldwin. M. & G. R. R. B. at Canfield. M. & L. R. R. at Peters. M. & N. E. R. R. at Bear Creek, Manistee Crossing and Interlochen. A. & B. R. B. at Thompsonville. T. S. & M. R'y at Muskegon and Sparta.		
What pattern or patterns have you adopted? Allentown, Gravitt Union Switch & Signal Co., American Signal Co.	•	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there flagmen  Number of crossings at which there are electric or automatic signals		654 30 1
What pattern or patterns in use? O'Neil.		
Number of crossings of highways over or under railroad: Over 14, under 11.		
Number of highway bridges 18 feet above track		13
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws of 1 Yes.	8831	
How are they treated? Hart guards and blocked with plank.		
. Stations.		
Number of stations on whole lines		108 101

### Employés.

Number Same in	of persons regularly employ Michigan	ved on all roads operated	by company, includ	ling officials	1,474 1,419
Bagga Brake Condu Engin Firem Labor Shopn Yardn	your employés as per folio gemen				Number. 12 70 41 66 67 509 82 47 625
		REPAIRS AND RENEW	ALS.		
and.	any miles of fencing have yo number of miles required the counties in which need yoo, Oceana, Lake, Antrim iles required: 37.	ect :	des of your track i	n Michigan,	894
Average Average Number Number	of track sections in Michigal length of sections (miles).  number of men in each sector of new ties put in whole lift of new ties put in track in number of new ties per mi	etion gang ne during the year Michigan		5.2	108 889,278 825,721 584
		Bridges and culver	rts.		
Timber With in	of trestle work replaced w culverts replaced during the on pipe	10 year			Number. 27 4 23 10
No.	Location.	Kind.	Material.	Month built.	Feet in length.
38.2 116.7 182.5 141.8 142 875.9 A 18.9 A 30.1 A 57.7 B 23.7	New Buffalo New Richmond Zeeland Hudsonville Hudsonville South Petoskey North Hamilton North Holland Muskegon Fremont	Frame trestle  Deok girder Frame trestle Pile trestle Pile trestle Frame trestle Frame trestle Pile trestle Pile trestle Pile trestle Pile trestle Pile trestle	Wood	February September April July July September January June February January	235 70 11 30 120 11 12 15 74 96
•		ROLLING STOCK	•		resent esti-
Number	r of locomotives of more th r of locomotives of 20 to 30 ( r of locomotives of 10 to 20 (	ions weight, exclusive of	tender	54 22 1	\$189,000 00 55,000 00 1,000 00
		I including official care			\$245,000 00
Number	r of passenger cars—8-whee r of express and baggage or r of box freight cars————————————————————————————————————			1,759	\$115,000 00 40,500 00 439,750 00 6,250 00 180,950 00 6,200 00
	al				7,900 00 \$1,041,550 00

CHICAGO & WEST MICHIGAN RAIL	WAY	COMPANY.	113
Number of locomotives equipped with power brakes	motives a	nd cars with eac	78 846
Locomotives, Westinghouse Locomotives, New York Locomotives, American steam Locomotives, Nil Passenger, Westinghouse Freight, Westinghouse			
Are your freight cars being equipped with automatic couplers as of 1885, as amended by act No. 88, session laws of 1887? Yes.	required	by Act No. 147, s	ession laws
What pattern or patterns have you adopted for use? Gould Automatic.			
How are your passenger cars heated? Steam from locomotive.			
MILEAGE, TRAFFIC, ETC.			
Train mileage.		Entire lines. In	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		798,985 751,468 64,144	746,902 706,901
Total mileage of trains earning revenue		1,545,448	1,453,808
Passenger traffic.—Entire line	<b>s</b> .		
	Number		Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	5,02 761,81		
Total number of passengers carried, earning revenue	766,88	ก	
Number of passengers carried one mile Average distance carried Average amount received from each passenger		32,565	\$0 69.728
Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers			01.004 02.178 02.141
Passenger traffic.—In State of Mich	igan.		
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	4,72 716,68	8 5 -	
Total number of passengers carried, earning revenue	721,36		
Number of passengers carried one mile Average distance carried. Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers		30.634	\$0 65.588 00.944
Average receipts per mile for local passengers			02.049 02.014
Freight traffic movement.—Entire l	ines. Tons	. Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	22,37 1,152,35		1500.
Total tons of freight carried, earning revenue	1,174,72		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight		. 89,982,136 92,595,201	
Average ton haul for local freight.  Average ton haul for all freight.		- 78,042 - 78,823	<b>6</b> 0 04 EE0
Average ton haul for all freight Average amount received for each ton haul. Average receipts ton per mile, for through freight. Average ton receipts per mile, for local freight.			\$0 84.558 .860 01.079
Average receipts ton per mile, for all freight			01.078

### Freight traffic.—In State of Michigan.

Freight trayic.—In State of michig	un.		
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	Tons. 21,048 1,084,017	Miles.	Rate.
Total tons of freight carried, earning revenue	1,105,065	•	
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight		74,141	\$0 79.539 00.809 01.015 01.009

### FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

### Company's material excluded.

a W	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	25,754 15,019	20,643	46,897 17,737	3.95
Flour Other mill products	15,019	2,718 104	17,787	1.51 .01
Hav	11,103	5.663	16,766	1.43
Hay Fruit and vegetables	97,659	17,562	115,221	9.81
Products of animals:				
Live stock	5,745 170	871	6,616 2,257	.56
Dressed meats	170	2,087 1,030	1,182	.19 .10
Other packing house products Poultry, game and fish	709	1,000	7,100	.06
Wool	1 122	68	190	.02
Wool Hides and leather	4,933	4,190	9,123	.78
Products of mines:	}	10.505	40.707	
Anthracite coal	210	12,787	12,787 89,790	1.09 7.64
Bituminous coal Stone, sand and other like articles	42,308		43,444	7.04 3.70
Salt.	106	9,274	9,880	.80
Products of forest:				
Lumber.	434,343	60,676	495,019	42.14
Charcoal	15,233	7,330	22,563	1.92
Manufactures: Petroleum and other oils	2.836	3,176	6,012	.51
Iron, wig and bloom		1,818	24.289	2.07
Iron and steel rails		2,381	2,589	.22
Other castings and machinery	902	749	1,651	.14
Bar and sheet metal	4	1,276	1,280	.11
Cement, brick and lime	31,519	3,585	35,104	2.99
Agricultural implements	535 1,171	768 322	1,303 1,493	.11 .18
Wagons, carriages, tools, etc	2.394	3,120	5.514	.47
Household goods and furniture	24,421	1,685	26,106	2.22
Merchandise	87,818	30,300	118,118	10.05
Miscellaneous: Other commodities not mentioned above	41,901	20,019	61,920	5.27
Total tonnage	469,807	304,920	1,174,727	100.00

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

Commodity.	Freight originating on this road.	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:	~~~	40.000			
Grain Flour	25,390 14,650	13,958 2,614	39,348 17,264	3.62 1.59	
Other mill products	14,030	7,014	17,204	1.58	
Hav	9,818	4,517	14.385	1.82	
Hay Fruit and vegetables	97,657	17,478	115,135	, 10.61	
Products of animals:					
Live stock	5,740	768 2.029	6,508	.60	
Other packing house products	169 152	2,029	2,198 1,080	.20 .10	
Poultry, game and fish	709	2	1,000	.07	
Wool	122	l 4	166	.02	
Wool Hides and leather	4,875	8,492	8,367	.77	
Products of mines:			[		
Anthracite coal		7,589	7,589	.70	
Bituminous coal Stone, sand and other like articles	210 42,308	46,370 983	46,580 48,291	4.29 3.99	
Salt	106	9,146	9,252	.85	
Products of forest:					
Lumber	484,080	55,006	489,086	45.06	
Charcoal	15,238	6,977	22,210	2.05	
Manufactures: Petroleum and other oils	2,808	1,615	4,423	.41	
Iron, pig and bloom	22,471	1,121	23,592	2.17	
Iron and steel rails	208	1,543	1,751	.16	
Iron and steel railsOther castings and machinery	884	628	1.512	.14	
Bar and sheet metal	4	306	310	.08	
Coment, brick and lime	31,327	2,229	33,556	3.00	
Agricultural implements	362 489	473 307	835 746	.06	
Wagons, carriages, tools, etc	2.859	2,807	5.166	.48	
Wines, liquors and beers	24,374	1,485	25,859	2.38	
Merchandise	86,932	25,312	112,244	10.34	
discellaneous:					
Other commodities not mentioned above	38,847	18,273	52,120	4.80	
Total tonnage	862,295	223,092	1,085,387	100.00	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. at an agreed rate; they handle their own freight at railway company's depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
1,741 miles. 1,470 miles of wire belong to the Western Union Telegraph Co.; 271 miles of wire belong to the C. & W. M. R'y on W. U. Tel. Co. poles.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED

April 15, C. Eveats, citizen, Bellaire. Walking on track, struck by train.
October 29, Henry Lewis, citizen, Big Rapids Junction. Catching on moving train.
October 24, Mrs. Modrow, citizen, Lumberton. Walking on track at night, struck by hand car.
July 25, H. Tinkey, citizen, East Saugatuck. Boy playing on track, struck by train.
October 1, Frank Wilson, citizen, Pearl. Lying asleep on track; intoxicated.

#### INJURED.

February 26, John Bonga, citizen, Grand Rapids. Cars collided account breaking of brake chain.

June 7, W. E. Bockes, citizen, Traverse City. Jumping on moving train.

April 20, Lena Costic, citizen, Benton Harbor. Child playing on track.

April 13, Stephen Dykstra, citizen, Grand Haven. Climbing between cars on siding.

October 12, Leonard Eyke, citizen, Muskegon. Struck by engine at private crossing.

October 12, James Frazer, citizen, Muskegon. Struck by engine at private crossing.

October 13, Andrew Hass, citizen, Waterylist. Driving on right of way, struck by train.

June 9, James Knapp, brakeman, Waverly. Coupling; accidental.

September 4, Rich, Kimno, citizen, St. Joseph. Boy climbing between cars.

April 25, George Phelps, brakeman, Petoskey. Struck by fish-chute at side of track.

March 7, Abram Streeter, citizen, Bellaire. Struck by train at crossing.

April 30, Lucinda Steele, citizen, Wateryliet. Alighting from moving train.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.		Injured.		
	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Collisions				1	i	
Hetting on and off trains				2	1	
Frespassers on trains			4			
Total			5	8	2	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year Number of persons injured during the year Number of casualties purely accidental Number resulting from lack of caution, carelessness or misconduct Persons killed or injured while intoxicated Trespassers or tramps killed or injured	12 2 15
CLASSIFICATION OF EMPLOYÉS.	

# CLASSIFICATION OF EMPLOYES. KILLED OR INJURED IN MICHIGAN.

### Brakemen-injured _____

STATE OF MICHIGAN, SS. COUNTY OF KENT,

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Chicago and West Michigan Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

CHAS. M. HEALD, U. B. ROGERS.

Subscribed and sworn to before me this 12th day of April, A. D. 1897.
[L. S.]

HENRY J. BRODERICK,
Notary Public, Kent Co., Mich.

#### ANNUAL REPORT

#### OF THE

### CHICAGO & NORTH MICHIGAN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 14, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CHAS. M. HEALD, Grand Rapids, Mich. Secretary, GEO. F. WEIDMAN, Grand Rapids, Mich. Treasurer, F. H. DAMON, Boston, Mass. Transfer Agent, F. H. DAMON, Boston, Mass.

#### DIRECTORS.

F. H. DAMON, Boston, Mass.
F. A. NIMS, Muskegon, Mich.
CHAS. M. HEALD, Grand Rapids, Mich.
WM. ALDEN SMITH, Grand Rapids, Mich.
U. B. ROGBES, Grand Rapids, Mich.
J. E. HOWARD, Grand Rapids, Mich.
GEO. F. WEIDMAN, Grand Rapids, Mich.
Terms expire April 21, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 2, 1891.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 6.

Amount of full paid stock held in Michigan at same date: f69,000.00.

Date of annual meeting of stockholders: Third Wednesday in April.

Fiscal year of company ends December 31.

General offices of the company are located at Grand Rapids, Mich.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares \$100 00 Average price received per share 100 00 Number of shares issued 8,335	\$1,	500,000 00
Amount paid in on common	\$810,000 00	
Total amount paid in as per books of the company		810,000 00
Paid in per mile of road owned by company	·····	8,746 07

#### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage on \$2,613 miles of road, Traverse City to Elk Rapids to Bay View. Principal and interest guaranteed by the C. & W. M. Ry. Co.	5%	May 1, 1981	Boston, Mass	\$1,667,000 00

#### RECAPITULATION.

ESCAPIION:	
Total funded debt, included in C. & W. M. Ry. report.	\$1,667,000 00°
Total debt liabilities Total amount of stock and debt Stock and bonded debt per mile of road	2,477,000 00 26,745 70
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year Was it paid for the last year? One-half cash, ½ C. & W. M. coupon scrip due in ten years.	\$83,850 00
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by compar	ıy.
Total expended for construction Average cost of construction per mile of road (not including sidings), 92.613 miles Proportion of cost of construction for Michigan	\$1,809,880 04 19,542 38 1,809,880 04
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: July 15, 1892.	
MAIN LINE.	
Length completed in Michigan:	Miles.
Traverse City to Bay View 79.021	
Total length completed	79.021
BRANCHES.	
From Williamsburg to Elk Rapids 9.512 From Cherrie to Ironton 4.080	•
Total length of branches owned by company	13.592
Total length of road belonging to this company in Michigan	92.618
Gauge of track, 4 feet 81/2 inches.	

STATE OF MICHIGAN, } as.

COUNTY OF KENT, } as.

Chas. M. Heald, president, and Geo. F. Weidman, secretary, of the Chicago & North Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statement to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

CHAS. M. HEALD, President.

GEO. F. WEIDMAN, Secretary.

Subscribed and sworn to before me this 12th day of April, A. D. 1897. [L. S.] HENRY J. BRODERICK, Notary Public, Kent County, Mich.

### ANNUAL REPORT

#### OF THE

### JACKSON & CINCINNATI RAILWAY COMPANY,

#### PART OF CINCINNATI, JACKSON & MACKINAW SYSTEM.

For the year ending December \$1, 1896.

[Filed May 11, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, F. B. DRAKE, Toledo, Ohio. Secretary, W. F. BOOTH, Toledo, Ohio.

#### DIRECTORS.

F. B. DEAKE, Toledo, Ohio.
B. A. HAYES, Toledo, Ohio.
ROBT. TUCKEE, Toledo, Ohio.
W. F. BOOTH, Toledo, Ohio.
F. B. SWAYNE, Toledo, Ohio.
Terms expire August 12, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 12, 1895. Number of stockholders at date of last election: 8. Date of annual meeting of stockholders: Second Thursday in August. Fiscal year of company ends June 30. General offices of the company are located at Toledo, Ohio.

#### REMARKS.

Leased to Frank B. Drake, receiver of the Cincinnati, Jackson & Mackinaw R'y, who takes all earnings and pays all expenses.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$160,000 00
Par value of shares	
Average price received per share	
No. of shares issued 1,600	
Amount paid in on common	160,000 00
Total amount paid in, as per books of the company	160,000 00
Total amount paid in, as per books of the company	9,065 15
T did in but mim of 10se outlood of combant	01000 70

#### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	Sept. 1, 1945	New York	\$300,000 00

#### RECAPITULATION.

Total funded debt	\$300,000 00
Total debt liabilities	\$300,000 00
Amount of debt liabilities per mile of road, 17.65 miles.  Total amount of stock and debt.  Stock and debt per mile of road.	16,997 17 460,000 00 26,062 32
INTEREST ON THE FUNDED DEET.	
What is the amount of same due each year	15,000 00
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: April 26, 1896.	
MAIN LINE.	Miles.
Length completed in Michigan, Addison Junction to Jackson	17.65 17.65
BRANCHES.	
Total length of road belonging to this company	17.65 17.65 1.28 1.26 18.91 18.91
Gauge of track, 4 feet 81/2 inches.	

STATE OF OHIO, } 88.

F. B. Drake, president, and W. F. Booth, secretary, of the Jackson & Cincinnati Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. B. DRAKE, President. W. F. BOOTH, Secretary.

Subscribed and sworn to before me this 10th day of May, A. D. 1897.

B. H. HAYES, Notary Public, Lucas County, Ohio.

#### ANNUAL REPORT

OF THE

## CINCINNATI, JACKSON & MACKINAW RAILWAY COMPANY,

FRANK B. DRAKE, Receiver,

For the year ending December 81, 1896.

[Filed May 11, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CALVIN S. BRICE, New York.
Vice President, GEO. L. BRADBURY, Chicago, Ill.
Secretary and Treasurer. L. M. SCHWAN, New York.
Auditor, W. F. BOOTH, Toledo, Ohio.
General Manager, F. B. DRAKE, Toledo, Ohio.
Superintendent, J. B. FLANDERS, Toledo, Ohio.
Division Superintendent, W. F. BACCUS, Van Wert, Ohio.
Superintendent of Telegraph, FRANK ALLEN, Toledo, Ohio.
Cashier, O. A. WILSON, Toledo, Ohio.
General Passenger Agent, T. C. M. SCHINDLER, Toledo, Ohio.
General Freight Agent, C. W. COOK, Toledo, Ohio.
Attorney, SWAYNE, HAYES & TYLER, Toledo, Ohio.
Receiver, FRANK B. DRAKE, Toledo, Ohio.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: Receiver appointed December 6, 1894. Fiscal year of company ends June 80. General offices of the receiver are located at Toledo, Ohio.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation.		\$707,086 36
Total expenses including taxes	\$636,968 57	
Net income		\$70,117 79
Interest on unfunded debt	<b>25,259</b> 10 44,491 19	
Balance applicable to dividends		<b>\$20,867</b> 50
Balance for the year		\$20,867 50
Balance (profit and loss) last year		46,197 61
Balance forwarded to next year		\$66,565 11

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.  Receivers' certificates, various dates in 1896		Rate of interest. When due.		Where payable.		Amount outstanding.
		6%	Two years after date	New Y	ork	\$173,822 60
•	τ	NFUNDED	DEBT.			
For what incurred.	Is t	he same t	o be funded or ho	w liquid	ated?	Amount.
For current balances						\$247,668 88
		RECAPITUI	ATION.			
Fotal funded debt Fotal unfunded debt						\$178,322 60 247,668 83
Total debt liabilities						\$420,991 43
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road o	e of road wned and	owned or leased, 3	leased, 341.35 mile	8		1,233 31 420,991 43 1,233 31
Immorrament economist	ne) : kinaw R'y	Со	DE SHEET.—Dr.		\$304,980 11 37,857 80 1,829 32	)
Cash items:				• • • • • • • • • • • • • • • • • • • •	\$10,871 58 87,615 54	· \$344,647 23 }
Other assets: Materials and supplies. Debit balances from companies of Unearned insurance. Cincinnati Northern R'y Co	and indiv	iduals			\$49,431 91 38,670 88 344 50 24,125 61	i
Total						
- V						
Funded debt—receiver's certificate Destroyed car fund Unfunded debt; Interest unpaid Ouchers and accounts Other liabilities:	88				\$2,720 96 220,964 28 34,855 17	2,279 08
Profit and loss or income account	3					258,540 41 66,565 11
Total						\$500,707 20
CHARGES AND	CREDIT	S TO PRO	PERTY DURIN	G THE	YEAR.	
Extensions and new sidings.  Miscellaneous improvements.  New buildings.  Machinery and tools.  New locomotives.  New cars.  Total.  Total charges to property account.  Net addition to property account.						21,020 14 6,978 45 47,679 82 47,102 30 41,890 24 \$216,578 78

# ANALYSIS OF EARNINGS—IN STATE OF MICHIGAN.

PASSENGER EARNINGS.		
Main line and branches: Local fares Through fares	\$69,660 29 7,719 06	
Total passenger fares	\$77,879 35	
Express and baggage Mails	15,662 57 11,431 41	
Total passenger department earnings		\$104,473 88
Per train mile	<b>90 46</b> 556 81	
Main line and branches:		
Local traffic Through traffic	176,708 04 85,277 50	
Total traffic	\$211,985 54	
Total freight department earnings		211,985 54
Per train mile	<b>\$</b> 0 96 1,129 81	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGER EARNINGS.  Main line and branches:		
Local fares Through fares	\$153,885 53 17,052 06	
Total passenger fares	\$170,937 59	
Express and baggage Mails	34,599 96 25,252 96	
Total passenger department earnings		\$230,790 51
Per train mile	\$0 46 556 81	
PREIGHT EARNINGS.		
Main line and branches: Local trafficThrough traffic	390,363 17 77,981 02	
Total traffic	•	468,294 19
Total freight department earnings  Per train mile  Per mile of road	\$0 96 1,129 81	400,601 19
rer mue or road	1,129 01	
Total transportation earnings, entire line	\$1,686 62 71	\$699,084 70
Miscellaneous receipts from operating account. other than for transportation, From car mileage balance. From other sources.	\$7,310 62 691 04	
Total		8,001 66
Total earnings from operation of road  Total earnings per mile of road, average 408.57 miles  Total earnings per train mile, 980,887 miles  Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan	\$1,780 64 72 820,081 03 1,780 64	\$707,086 36
Total income from all sources Proportion of income for Michigan		\$707,086 86 320,081 08

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway	\$73,292 84
Renewals of rails	107 38
Renewals of ties	107 38 38,579 97 18,262 14
Repairs and renewals of bridges and culverts	18,262 14
Repairs and renewals of fences, road crossings, signs and cattle guards	5.879 75
Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Stationery and printing	7,985 77
Repairs and renewals of telegraph	1,575 88
Stationery and printing	74 10
	A1 10 000 00
Total	\$140,287 33
MAINTENANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop, machinery and tools Stationery and printing	\$9,707 08 87,567 23 10,510 38
Repairs and renewals of locomotives	87,567 23
Repairs and renewals of passenger cars	10,510 33
Repairs and renewals of freight cars	42,991 65
Repairs and renewals of work cars	558 13 1,921 77
Repairs and renewals of shop, machinery and tools	1,921 77
Stationery and printing	341 50
Total	#100 F07 #4
1041	\$103,597 64
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men	\$18,616 32
Engine and roundhouse men	61,171 53
Fuel for locomotives	65,871 23
Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives.	61,171 53 65,871 23 4,399 49
Oil, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses. Station service. Station supplies. Switching charges—balance. Car mileage—balance. Loss and damage. Injuries to persons Cilcaring wrecks	2,278 13
Other supplies for locomotives	670 89 45,041 34 5,308 95 11,531 22 22,063 19 40,629 10 3,301 03 21 138 05
Train service.	40,041 34
Train supplies and expenses	3,805 80
Talagran hayanas	22 063 10
Station service	40.629 10
Station supplies	3,301 03
Switching charges—balance	21,136 05 880 43 2,990 88
Car mileage—balance	880 43
Loss and damage	2,990 88
Injuries to persons	993 53
	2 204 42
Advertising	
	10 408 40
Outside agencies	1,422 42 3,296 48 10,906 49
Commissions Rank of buildings and other property	10,906 49 251 44 2,205 20
Commissions Rent of buildings and other property Stationery and orniting	2,205 20
Commissions Rent of buildings and other property Stationery and printing	2,205 20 7,383 30
Commissions Rent of buildings and other property Stationery and printing Total	2,205 20
Commissions Rent of buildings and other property Stationery and printing Total	2,205 20 7,383 30
Commissions Rent of buildings and other property Stationery and printing	2,205 20 7,383 30
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.	2,205 20 7,383 30 \$382,348 64
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.	2,205 20 7,383 30 \$382,348 64
Commissions Rent of buildings and other property Stationery and printing Total GENERAL EXPENSES.	2,205 20 7,383 30 \$332,348 64 \$9,813 40 9,090 35
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies	2,205 20 7,383 30 \$332,348 64 \$9,813 40 9,090 35 3,253 07
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies	\$2,205 20 7,383 30 \$382,348 64 \$9,813 40 9,090 35 3,253 07 658 50 4,721 97
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies	\$9,813 40 9,090 35 3,223 07 658 50 4,721 97 1,191 44
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies	\$2,205 20 7,383 30 \$332,348 64 \$9,813 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies	\$9,813 40 9,090 35 3,223 07 658 50 4,721 97 1,191 44
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes	\$2,205 20 7,383 30 \$332,348 64 \$9,980 35 3,253 07 688 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies	\$2,205 20 7,383 30 \$332,348 64 \$9,813 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total	\$2,205 20 7,383 30 \$332,348 64 \$9,980 35 3,253 07 688 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total	\$2,205 20 7,383 30 \$332,348 64 \$9,980 35 3,253 07 688 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of	\$2,205 20 7,383 30 \$332,348 64 \$9,980 35 3,253 07 688 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.	\$2,205 20 7,383 30 \$332,348 64 \$9,683 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.	\$2,205 20 7,383 30 \$332,348 64 \$9,683 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26	\$2,205 20 7,383 30 \$332,348 64 \$9,683 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures.  Maintenance of equipment 22.02 Maintenance of equipment 52.18 Conducting transportation 52.18	\$2,205 20 7,383 30 \$332,348 64 \$9,090 35 3,253 30 4,721 97 1,191 44 690 88 31,365 35 \$80,784 96 \$140,237 33 103,597 64 382,348 64
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26	\$2,205 20 7,383 30 \$332,348 64 \$9,683 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88 31,365 35
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures.  Maintenance of equipment 22.02 Maintenance of equipment 52.18 Conducting transportation 52.18	\$2,205 20 7,383 30 \$332,348 64 \$9,090 35 3,253 30 4,721 97 1,191 44 690 88 31,365 35 \$80,784 96 \$140,237 33 103,597 64 382,348 64
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation General expenses, including taxes. 9.34  Total operating expenses and taxes. 100.00	\$2,205 20 7,383 30 \$332,348 64 \$9,090 35 3,253 07 4,721 97 1,191 44 50,784 96 \$1,365 35 \$60,784 96 \$140,237 33 103,597 64 362,348 64 60,784 96 \$636,968 57
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation General expenses, including taxes. 9.34  Total operating expenses and taxes. 100.00	\$2,205 20 7,383 30 \$332,348 64 \$9,813 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88 31,365 35 \$60,784 96
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation General expenses, including taxes. 9.34  Total operating expenses and taxes. 100.00	\$2,205 20 7,383 30 \$332,348 64 \$9,090 35 3,253 07 4,721 97 1,191 44 50,784 96 \$1,365 35 \$60,784 96 \$140,237 33 103,597 64 362,348 64 60,784 96 \$636,968 57
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation 52.18 General expenses, including taxes 9.54 Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue. Proportion of operating expenses and taxes for Michigan, main line	\$2,205 20 7,383 30 \$332,348 64 \$9,080 35 3,253 07 1,191 44 690 88 31,365 35 \$60,784 96 \$140,237 33 103,597 64 382,348 64 60,784 96 \$636,968 57 1,559 01 65
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation 52.18 General expenses, including taxes 9.54 Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue. Proportion of operating expenses and taxes for Michigan, main line	\$2,205 20 7,383 30 \$332,348 64 \$9,080 35 3,253 07 1,191 44 690 88 31,365 35 \$60,784 96 \$140,237 33 103,597 64 382,348 64 60,784 96 \$636,968 57 1,559 01 65
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation 52.18 General expenses, including taxes 9.54 Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue. Proportion of operating expenses and taxes for Michigan, main line	\$205 20 7,383 30 \$332,348 64 \$9,900 35 3,253 07 1,191 44 690 88 31,365 35 \$60,784 96 \$140,237 33 103,597 64 362,348 64 60,784 96 \$636,968 57 1,559 01 65 288,340 38
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation General expenses, including taxes 9.54 Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue. Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan Per centage of expenses to earnings Note earnings per mile of road Operating proportion of expenses to earnings Per centage of expenses to earnings 90.08 Net earnings per mile of road	\$205 20 7,383 30 \$332,348 64 \$9,900 35 3,253 07 1,191 44 690 88 31,365 35 \$60,784 96 \$140,237 33 103,597 64 362,348 64 60,784 96 \$636,968 57 1,559 01 65 288,340 38
Commissions Rent of buildings and other property Stationery and printing  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 16.26 Conducting transportation 52.18 General expenses, including taxes 9.54 Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue. Proportion of operating expenses and taxes for Michigan, main line	\$2,205 20 7,363 30 \$332,348 64 \$9,990 35 3,253 07 4,721 97 1,191 44 690 88 31,365 35 \$60,784 96 \$140,237 33 103,597 64 362,348 64 60,784 96 \$636,968 57 1,559 01 65 288,840 38

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Dundse, Mich., to Allegan, Mich., November 29, 1883. From Addison Junction, Mich., to C. C. & St. L. Jet., Ohio. July 10, 1889.		
Leased: From Addison Junction, Mich., to Jackson, Mich., April 25, 1896.		
Branches: From Lewisburg, Ohio, to Quarries, 1887. From Germantown, Ohio, to Distillery, 1887.		
MAIN LINE.	Miles.	Miles.
In Michigan, from Dundee to Allegan	133	Miles.
In Michigan from Addison Junction to State Line	22.18 165.32	
Total length completed		820.50
BRANCHES.		
- <del> </del>	1.4	
Enphemia from Lewisburg to Quarries	1.8	
Total length of branches owned by company		8.20
Total length of road belonging to this company	155.18	323.70
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	19.22	
Aggregate length of tracks in Michigan belonging to this company, computed		
track		174.40
Gange of track, 4 feet 8% inches.		
Proprietary or leased roads operated by this company.		
		In Michigan.
W. & L. E. R'y—Toledo to Manhattan Junction Ann Arbor R'y—Toledo to Dundee J. & C. R'y—Addison Junction to Jackson	2.1 22.9	
J. & C. R'y—Addison Junction to Jackson L. S. & M. S. R'y—Jackson terminal C. C. C. & St. L. R'y—Franklin to Middletown	17.65 1.04	17.65 1.04
C. C. C. & St. L. R'y—Franklin to Middletewn M. & C. R'y—Middletown to Hageman	5. <b>6</b> 8 10.51	
m. & C. h y-middledown to mageman	10.01	
C. L. & N. R'y—Hageman to Cincinnati B. & O. S. W.—East Norwood to Cincinnati	24.90	
B. & O. S. W.—East Norwood to Cincinnati	24.90 6.01	
B. & O. S. W.—East Norwood to Cincinnati  Total	24.90 6.01 90.79	35.69
B. & O., S. W.—East Norwood to Cincinnati.  Total  Total miles operated by company	24.90 6.01	35.69 190.87
B. & O. S. W.—East Norwood to Cincinnati  Total	24.90 6.01 90.79 414.49	35.69
B. & O. S. W.—East Norwood to Cincinnati.  Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden	24.90 6.01 90.79 414.49 Number.	35.69 190.87 Aggregate
B. & O. S. W.—East Norwood to Cincinnati  Total  Total miles operated by company  Number of bridges and trestles in Michigan.	24.90 6.01 90.79 414.49 Number.	35.69 190.87 Aggregate length, feet.
B. & O. S. W.—East Norwood to Cincinnati.  Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden	24.90 6.01 90.79 414.49 Number. 1 177	35.69 190.87 Aggregate length, feet. 144 59 15,990
Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  Iron.  Wooden trestles	24.90 6.01 90.79 414.49 Number. 1 177	35.69 190.87 Aggregate length, feet. 144 59 15,990
Total.  Number of bridges and trestles in Michigan.  Wooden Iron.  Wooden trestles  Total  Crossings.—Railroad and highway.	24.90 6.01 90.79 414.49 Number. 1 177	35.69 190.87 Aggregate length, feet. 144 59 15,990
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality? Wabash R. R. at Britton.  L. S. M. S. R. L. at Teoumseh, Hanover, Homer and Allegan. Michigan Central R. R. at Homer and Battle Creek. Chicago & Grand Truek R. R. R. at Battle Creek. Chicago, Kalamazoo & Saginaw R. R. at Kalamazoo Junction.	24.90 6.01 90.79 414.49 Number. 1 177	35.69 190.87 Aggregate length, feet. 144 59 15,990
Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden.  Iron.  Wooden trestles  Total  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Truck R. R. at Battle Creek.  Chicago, Kalamazoo & Saginaw R. R. at Kalamazoo Junction.  Grand Rapids and Indiana R. R. at Monteith.	24.90 6.01 90.79 414.49 Number. 1 177 179	35.69 190.87 Aggregate length, feet. 144 59 15,990 16,193
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality? Wabash R. R. at Homer and Battle Creek. Chicago & Grand Truck E. R. at Monteith.  Chicago, Kalamazoo & Saginaw R. R. at Kalamazoo Junction. Grand Rapids and Indiana R. R. at Monteith.  What railroads cross your road either over or under your grade in this State, and Chicago & Grand Truck R. R. at Monteith.  What railroads cross your road either over or under your grade in this State, over: L. S. & M. S. R. R. at Jerome and Hudson.	24.90 6.01 90.79 414.49 Number. 1 177 179	35.69 190.87 Aggregate length, feet. 144 59 15,990 16,193
C. L. & N. Ky—Hageman to Cincinnati.  B. & O. S. W.—East Norwood to Cincinnati.  Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  Iron.  Wooden trestles  Total.  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. at Teoumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Truck R. B. at Battle Creek.  Chicago, Kalamazoo & Saginaw R. R. at Kalamazoo Junction.  Grand Rapids and Indiana R. R. at Monteith.  What railroads cross your road either over or under your grade in this State, to over:  L. S. & M. S. R. B. at Jerome and Hudson.  Under:  Michigan Central B. R. at Augusta.  L. S. & M. S. R. B. at Woodstock.	24.90 6.01 90.79 414.49 Number. 1 177 179	35.69 190.87 Aggregate length, feet. 144 59 15,990 16,193
C. L. & N. Ky—Hageman to Cincinnati.  B. & O. S. W.—East Norwood to Cincinnati.  Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden.  Iron.  Wooden trestles.  Total.  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago, & Grand Truck R. R. at Battle Creek.  Chicago, & Grand Truck R. R. at Kalamazoo Junction.  Grand Rapids and Indiana R. R. at Monteith.  What railroads cross your road either over or under your grade in this State, to over:  L. S. & M. S. R. R. at Jerome and Hudson.  Under:  Michigan Central B. R. at Augusta.	24.90 6.01 90.79 414.49 Number. 1 177 179	35.69 190.87 Aggregate length, feet. 144 59 15,990 16,193
Total.  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden.  Iron.  Wooden trestles  Total  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Truck R. B. at Battle Creek.  Chicago, Kalamazoo & Saginaw R. R. at Kalamazoo Junction.  Grand Rapids and Indiana R. R. at Monteith.  What railroads cross your road either over or under your grade in this State, to over:  L. S. & M. S. R. R. at Jerome and Hudson.  Under:  Michigan Central B. R. at Augusta.  L. S. & M. S. R. R. at Woodstock.  At what crossings are interlocking and derailing switches in operation?  Chicago, Kalamazoo & Saginaw R'y at Kalamazoo Junction.  Michigan Central R'y at Battle Creek and Homer.	24.90 6.01 90.79 414.49 Number. 177 177 179	35.69 190.87 Aggregate length, feet. 144 59 15,990 16,193

Number of crossings of highways over or under railroad: over, 2; under, 6 Number of highway bridges 18 feet above track		. 8
Yes.  Are your frogs and guard rails blocked as required by act 174, session laws of 1883		
Yes. How are they treated?		
Wooden blocks. Stations.		
Number of stations on whole line		93
Employée.		
Number of persons regularly employed on all roads operated by company,		648
officials		817 299
Classify your employés as per following list:		Number.
Baggagemen. Brakemen		` 12 51
Conductors Engineers		26 33
Firemen Laborers		33 245
ShopmenYardmen		186 5
Others		<b>226</b>
REPAIRS AND RENEWALS.		
Fencing in Michigan.		330.87
How many miles of fencing have you		300.01
Give the number of miles required to complete fence both sides of your track counties in which needed:  Lenawee county, 1 11-100 miles.	in Michig	an, and the
Road bed and track.		
Number of track sections in Michigan Average length of sections, miles Average number of men in each section gang.	6 4-10	27
Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.  New rails put in track:		3 112,318 37,370 329
New rails put in track: Steel (tons 343.365) miles	3.774	328
Bridges and culverts.		
Amount of treatle work replaced with earth during the year (linear feet)		1,473 5
With iron pipe,—number		1
•		
ROLLING STOCK.	1	Present esti-
		ated value. \$99.000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	1	2,000 00
Total	34	\$101,000 00
Number of passenger cars—12-wheel, including official cars	1 25	\$2,000 00 49,000 00
Number of express and baggage cars  Number of box freight cars	1,044	7,200 00 208,800 00
Number of stock cars Number of platform cars	18 231	1,800 00 29,150 00
Number of coal care. Number of conductors' way care	111	16,650 00
Other cars as follows: Steam shovels Derrick	14 2 1	5,600 00 4,000 00 1,500 00
Total	1,453	\$325,700 00
<del>-</del>	<del></del>	34
Number of locomotives equipped with power brakes	•	31

What patterns of power brakes have you in use, and number of locomotives and cars with each? New York air, 12 locomotives, 8 cars. Westinghouse air, 10 locomotives, 23 cars. Eames vacuum, 2 locomotives. American steam, 10 locomotives.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Janney.

How are your passenger cars heated? Steam, 30; Baker heater, 1.

# MILEAGE, TRAFFIC, ETC.

## Train mileage.

2, 400	Postler House	T., M? - b ?
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.	401,623	210,668 181.805
Total mileage of trains earning revenue	980,857	444,010
December Anti-Mar The Alice Have		
Passenger traffic.—Entire lines.		
Number		Rate.
Number of through passengers carried, earning revenue	2	
Total number of passengers carried, earning revenue 334,075	3	
Number of passengers carried one mile 8,812,470 Average distance carried.	3 26.38	
Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers.		\$0 51.17 02.08 01.98 01.94
Passenger traffic.—In State of Michigan		
Number of through passengers carried, earning revenue 7,576 Number of local passengers carried, earning revenue 143,646		
Total number of passengers carried, earning revenue 151,22	3	
Number of passengers carried one mile	26.38	<b>\$</b> 0 51.17
Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers		02.08 01.93 01.94
Freight traffic.—Entire lines.		
Tons	Miles.	Rate.
Number of tons of through freight carried, earning revenue 135,880 Number of tons of local freight carried, earning revenue 519,978		
Total tons of freight carried earning revenue	3	
Total mileage of through freight Total mileage of local freight Total freight mileage or tone carried one mile Average ton haul for through freight Average ton haul for local freight	53,018,589 65,717,675 93.5	
Average ton haul for all freight.  Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average receipts ton per mile, for local freight.  Average receipts ton per mile for all freight.		\$0 71 00.614 00.796 00.713

# Freight traffic.—In State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	61,510 2 <b>8</b> 5,831		
Total tons of freight carried, earning revenue	295,891	·	
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile for local freight Average receipts ton per mile, for all freight		24,000,243 29,748,814 98.5 102.0 100.2	\$0 71 00.614 00.796 00.713

# FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

# Company's material excluded.

Commodity.	Freight originating on this road.	Freight received from connecting	Total freight tonnage.	
	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	46,928	6,920	53,848	8.21
Flour Other mill products	3,404	1,798	4,197	.79
Hay	3,033 26,982	1,444 1,561	4,477 28,543	.60 4.38
Tobacco.	3,849	2,319	6,168	•30 .94
Cotton	0,020	915	915	.14
Cotton Fruit and vegetables	4,900	4,390	9,290	1.4
Products of animals:				
Live stock		491	13,853	2.11
Dressed meats.	36	39	75	.01
Other packing nouse products	1,240 585	4,666 45	6,906	.90
Wool	283	14	630 297	.10
Other packing house products Poultry, game and fish Wool Hides and leather	125	i ii	169	.03
Products of mines:				
Anthracite coal	851	23,253	23,604	8.60
Bituminous coal	2,692	246,982	249,674	38.0
Coke	. 8	717	720	.11
Stone and and other like articles	17,106	4,828	17 21,984	.00 3.34
Öres Stone, sand, and other like articles Salt	201	2,255	2,456	.87
Products of forest:				
Lumber Other than lumber	12,754 30,877	33,528 9.078	46,282 39,955	7.06 6.06
Manufactures:		,		
Petroleum and other oils	2.088	4,720	6.808	1.04
Sugar	816	8.883	4,649	.70
Iron, pig and bloom	301	17,714	18,015	2.78
Iron and steel rails	108	1,131	1,239	.19
Other castings and machinery	4,737	8,575	13,312	2.00
Cement, brick and lime	879	8,068	8,947	1.36
Agricultural implements	870	1,137 262	1,507	.22
Wagons, carriages, tools, etc. Wines, liquors and beers	556 4,090	1,707	818 5,797	.88
Household goods and furniture	1,457	1,477	2,934	.45
Merchandise	11,066	10,214	21,280	3.23
Ice	22,384	125	22,509	3.43
Miscellaneous: Other commodities not mentioned above	9,150	24,883	34,033	5.19
Total tonnage	226,713	429,145	655,858	100.00

## FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

9	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	21,248	8,188	24,876	8.21	
Flour	1,541	812	2,353	.79	
Other mill products	1,378 12,214	653 706	2,026	.68 4.85	
Tobacco	1,742	1.050	12,920 2,792	1.80 .94	
Cotton	1,120	1,000	2,414	.14	
Cotton Fruit and vegetables	2,218	1,987	4,205	1.42	
Products of animals:					
Live stock	6,049	222	6,271	2.11	
Dressed meats	_16	18	34	.01	
Other packing house products	561 266	2,112	2,678	.90	
Wool	200 128	20	286 134	.10	
Other packing house products Poultry, game and fish Wool Hides and leather	57	20	177	.08	
Products of mines:				'	
Anthracite coal		10,526	10,685	3.60	
Bituminous coal.		111,803	113,022	88.07	
Coke	1	824	825	.11	
Ores Stone, sand, and other like articles.		0 100	8		
Salt	7,748 91	2,186 1,021	9,929 1,112	3.3 <u>4</u> .87	
Products of forest:		1			
Lumber	5,773	15,177	20,950	7.06	
Other than lumber	13,977	4,109	18,686	6.09	
Manufactures: Petroleum and other oils		0.107	0.000	1.04	
Sugar		2,187 1,785	3,082 2,104	1.04 .70	
Iron, pig and bloom		8,019	8,155	2.75	
Iron and steel rails	49	512	561	.19	
Other castings and machinery	1 2.144	3,882	6,026	2.03	
Cement, brick and lime	398	3,650	4,148	1.86	
Agricultural implements Wagons, carriages, tools, etc.	168	515	683	.23	
Wagons, carriages, tools, etc.	252	119	371	.13	
Wines, liquors and beers. Household goods and furniture.	1,851 660	773 659	2,624 1,829	.88 .45	
Merchandise		4,625	9,684	8.25	
Miscellaneous:					
Ice	10,133	57	10,190	3.48	
Other commodities not mentioned above	4,142	11,263	15,405	5.19	
Total tonnage	102,627	194,263	296,890	100.00	

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Fixed sum per month. General express business. Freight taken at depots.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? \$38.15 miles; Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

# Sleeping, drawing-room and palace car companies.

What aleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms! If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Ill., mileage

\$148 67

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED

August 31, Mrs. M. L. Turner, Res. Stepped in front of engine; carelessness.

#### INJURKO.

January 4, A. M. West, brakeman, near Eckford. Fell from car; carelessness. November 9, W. H. Smith, unknown, Marehall. Walking on track; trespassing. December 1, H. G. Williamson, unknown, Jackson. Highway collision; accidental. December 21, Wm. Glynn, brakeman, Addison. Coupling; carelessness.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Common of antidant		Killed.		Injured.		
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions			1		1 1	1 1
Total			1		2	2

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year.	4
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness or misconduct	2
1 respassers and tramps killed or injured	1

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Not classified above	<u>i</u>	2 2	2 3
Total	1	4	5

STATE OF OHIO, } 85.

Frank B. Drake, receiver, and W. F. Booth, auditor, of the Cincinnati, Jackson and Mackinaw Railway being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. B.]

FRANK B. DRAKE, Receiver. W. F. BOOTH, Auditor.

Subscribed and sworn to before me this 10th day of May, A. D. 1897.

B. A. HAYES.
Notary Public, Lucas County, Ohio.

L. S.

## ANNUAL REPORT

OF THE

# CINCINNATI, SAGINAW & MACKINAW RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. W. WRIGHT, Alma, Michigan. Vice President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Secretary and Treasurer, JAMES H. MUIR, Detroit, Michigan. General Superintendent F. H. McQUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Michigan. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HERBERT ROBERTS, Fort Gratiot, Michigan. Master Car Builder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant General Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant General Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

A. W. WRIGHT, Alma, Michigan.
CHARLES M. HAYS, Montreal, Province of Quebec.
W. R. BUET, Saginaw, Michigan.
G. M. STAEK, Saginaw, Michigan.
E. W. MEDDAUGH, Detroit, Michigan.
A. B. ATWATER. Detroit, Michigan.
S. O. FISHER, West Bay City, Michigan.

Terms expire April 15, 1897, or when successors are appointed.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 30, 1889 (dated December 28, 1889). Number of stockholders at date of last election: 11. Number of atockholders in Michigan at same date: 8. Amount of full paid stock hold in Michigan at same date: \$676,500. Date of annual meeting of stockholders: The day after the second Wednesday in April. Fiscal year of company ends December 31. General offices of the company are located at Detroit and Saginaw (E. S.), Michigan.

GENERAL EXHIBIT.					. Credit.
Total earnings from operation Total expenses, including taxes				\$124,247	\$128,855 35 06
Net income		•			\$4,608 29
Interest on funded debt				86,250	00
Balance for the year Balance (loss) from December 31, Items not included in above, as for Advances by the Chicago & Gran Trunk Railway Company of Ca	1895 llows: d Trunk R	ailway C	ompany and the (	\$81,641 46,093 Grand Octo-	44
ber 2, 1890 Balance forward to next year					57,855 28 69,869 87
				\$127,725	15 \$127,725 15
	ANALYSIS	OF CAL	PITAL STOCK.		
					\$5,000,000 00
Amount authorized by charter or a Par value of shares			15,000	\$100 00 \$1,500,000	00
Total amount paid in, as per b					
Paid in per mile of road owned by	company,	58 miles			28,801 89
	NALYSIS	OF DE	T ACCOUNTS.		
•		FUNDED :			
	· · · · · · · · · · · · · · · · · · ·				
Class, character and date of i	ssue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, issued 1st	January,	5 <b>%</b> .	1st Jan. 1920	New York	\$1,725,000 00
	डा	n <b>y</b> unded	DEBT.	•	
For what incurred.			be funded or ho	w liquidated.	Amount.
For miscellaneous	ŧ				\$279,924 51
	R	BCAPITUL	ATION.		
Total funded debt					\$1,725,000 00
Total unfunded debt					
Amount of debt liabilities per mil. Total amount of stock and debt Stock and debt per mile of road, 5					• •
			E SHEET.—Dr.		\$3,228,827 58
Construction and equipment accordant items: Cash Due from agents					
Other sesets:					36,886 44
Debit balances from companies Chicago & Grand Trunk Railwa inaw railroad interest coupon	s pledged	as securi	ty for advances	under	·
traffic agreement					32 — 160.324 26
Loss or income account					
Total					<b>\$3,504,924</b> 51

# CINCINNATI, SAGINAW & MACKINAW RAILWAY COMPANY. 133

# GENERAL BALANCE SHEET.—CR.

Capital stock Funded debt.	1,725,000 00	1
Unfunded debt: Interest uppaid	\$69.869.87	<b>\$3,225,000 00</b>
Vouchers and accounts. Other liabilities (list as follows): Chicago & Grand Trunk Railway Co. for advances under traffic agreement. Grand Trunk Railway Co. of Canada, ditto.		
Grand Trunk Railway Co. of Canada, ditto.	51,871 82	279,924 51
Total		\$8,504,924 51
COST OF ROAD AND EQUIPMENT.		
PURCHASED BY PRESENT COMPANY.	•	•
When purchased: 1st November, 1890. Original coet to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment		46,067 58
Total cost to date of report	••••	\$3,228,827 58
Average cost per mile of road (not including sidings), 58 miles Proportion of cost for Michigan		60,921 28 8,228,827 58
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Extensions and new sidings		\$8,955 61 1,452 71
Total		
Total charges to property account as above		10,408 32 10,408 32
		<del>====</del> ,
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MI	CHIGAN.	
PASSENGER BARNINGS.	CHIGAN.	
	e27 290 22	
PASSENGER EARNINGS.  Main line and branches:	\$27,230 22 7,422 99	•
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares	\$27,280 22 7,422 99 \$34,653 21 1,869 87	
PASSENGER EARNINGS.  Main line and branches: Local fares. Through fares.  Total passenger fares.  Express and baggage.	\$27,230 22 7,422 98 \$34,653 21 1,869 87 4,166 33	
PASSENGEE EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares  Express and baggage Mails	\$27,230 22 7,422 98 \$34,653 21 1,869 87 4,166 83	\$40,689 <b>41</b>
PASSENGER EARNINGS.  Main line and branches: Local fares. Through fares.  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile.	\$27,280 22 7,422 98 \$34,653 21 1,869 87 4,166 83	\$40,689 <b>41</b>
PASSENGEE EARNINGS.  Main line and branches: Local fares Through fares Total passenger fares.  Express and baggage Mails Total passenger department earnings  Per train mile Per mile of road.	\$27,230 23 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72	\$40,689 41
Main line and branches:  Local fares	\$27,230 22 7,422 99 \$34,653 21 1,869 67 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20	\$40,689 41
PASSENGER EARNINGS.  Main line and branches: Local fares. Through fares.  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  FREIGHT HARNINGS.  Main line and branches: Local traffic.	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21	\$40,689 41
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares Total passenger fares.  Express and baggage Mails Total passenger department earnings  Per train mile. Per mile of road  FREIGHT BARNINGS.  Main line and branches: Local traffic Through traffic.  Total traffic.	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21	\$40,689 41 87,688 21
Main line and branches:  Local fares	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21	\$40,689 41 87,688 21
PASSENGEE EARNINGS.  Main line and branches: Local fares Through fares Total passenger fares.  Express and baggage Mails Total passenger department earnings Per train mile. Per mile of road  FREIGHT EARNINGS.  Main line and branches: Local traffic. Through traffic. Total traffic. Total traffic. Per mile of road  Total transportation earnings, entire line  Transportation earnings per mile of road Transportation earnings per train mile. Miscellaneous receipts from operating account, other than for tranportation,	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21	\$40,689 41 87,688 21 \$128,377 62
Main line and branches:  Local fares	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21 \$2 03 1,654 49	\$40,689 41 87,688 21 \$128,877 62

Total earnings from operation of road	\$128,855 35
Total earnings from operation of road	128,855 35 2,481 23 128,855 35 128,855 35
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway.  Renewals of tails.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.  Stationery and printing.	\$15,385 53 450 00 9,385 45 2,354 81 568 92 1,817 87 726 36 54 06
Total.	\$30,742 50
MAINTENANCE OF EQUIPMENT.	
Superintendence Bepairs and renewals of locomotives Repairs and renewals of passenger cars. Repairs and renewals of freight cars Bepairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	\$390 48 8,513 75 5,761 18 3,758 48 50 00 460 68 78 40 120 73
Total	\$19,103 60
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service Station supplies Car mileage—balance Loss and damage Injuries to persons Advertising Outside agencies. Commissions Stationery and printing	\$3,210 20 14,808 71 9,587 08 676 08 574 71 4,800 73 1,677 10 10,151 32 2,195 12 13,915 93 1,512 04 2,000 97 272 86 157 84 384 66 1,385 30 219 08 769 32
GENERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Taxes  Total	\$433 66 850 21 600 17 715 93 644 44 82 50 2,775 00 \$6,101 91
RECAPITULATION OF EXPENSES.  Per cent of expenses.	
Maintenance of way and structures 24.74 Maintenance of equipment 15.38 Conducting transportation 54.97 General expenses, including taxes 4.91	\$30,742 50 19,103 60 68,299 05 6,101 91
Total operating expenses and taxes	\$124,247 06

CINCINNAII, SAGINAW & MACKINAW RAILWAY COMPA	MY. 100
Operating expenses and taxes per mile of road	8
Operating expenses and taxes per mile of road	
Proportion of operating expenses and taxes for Michigan, main line	\$124,247 06
Total proportion of expenses for Michigan	\$124,247 06
Net earnings per mile of road  Net earnings per train mile	86 95
Net earnings per train mile	·
DESCRIPTION OF ROAD.	•
Date when the road was opened for use between its present termini: From Durand, Michigan, to West Bay City, Michigan, 11th January, 1890.	
MAIN LINE.	Miles.
In Michigan, from Durand to West Bay City	
Total length completed	53.00
Aggregate length in Michigan of Sidings, spurs and other tracks not above	)
enumerated 32.64	<u> </u>
Aggregate length of tracks in Michigan belonging to this company, computed as single track	85.64
Gauge of track, 4 feet 8½ inches.	
Number of bridges and trestles in Michigan.	
	Aggregate length, feet.
Wooden bridges	299
Combination bridges	
Total 3	4,180
Duran haidash in Makkana	
Draw bridges in Michigan.  How many on your line?  Three,	
Where located, when built and length of draw span? One at Saginaw river, built in 1889; length of draw span, 194 feet. One two miles north of Batcheldor's, built in 1889, 88 feet long. One three miles south of West Bay City, built in 1889, 88 feet long.	
Character of structure?	
Truss.  Material of which constructed. One stone and iron, 2 of wood.	
Height above water, and depth of water under bridge. 20 feet and 12 feet respectively.	
How swung, by engine or hand power?  Hand power.	
Approaches straight or curved? Curved.	•
Do you require all trains to come to full stop before crossing a draw, and how are they a Yes. Signaled by semaphores.	ignaled?
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Maple street, Saginaw, E. S.; at South Saginaw (Saginaw, E. S.; and at Mershon's Michigan Central R. R. at Emerson street, Saginaw, E. S.; at north of river bridge, Saganaw, E. S.; (Wright's spur); and at Lafayette and Hart streets, West Bay City.	inaw, E. S.;
At what crossings are interlocking and derailing switches in operation?  Three at Saginaw, E. S.; 3 at Saginaw, W. S.; 1 at Saginaw, S. S.; 1 at Mershon's; 2 at W	
What pattern or patterns have you adopted? Union Switch & Signal Company's.	
Number of crossings of highways at grade in this State	96
Have safety guards been erected at overhead obstructions? Yes.	

Are your frogs and guard rails blocked as required by act 174, session laws of 18 Yes.	8837	
How are they treated? Plank blocking. Stations.		
Number of stations on whole lines.		21
Same in Michigan		21
Employés.		
Number of persons regularly employed on all roads operated by company officials  Same in Michigan	, including	124
Same in Michigan		124 Number.
Baggagemen		1 5
Brakemen Conductors		5 2
EngineersFiremen		6 7 37
Laborers		37 5
Shopmen Yardmen Others		5 8 53
Others		53
REPAIRS AND RENEWALS.		
Fencing in Michigan.		
How many miles of fencing have you?		116
Road bed and track.		
Number of track sections in Michigan		8
Average lengths of sections, miles Average number of men in each section gang Number of new ties put in whole line and sidings during the year Number of new ties put in track and sidings in Michigau Average number of new ties per mile of road and sidings		6% 4 83,121 83,121
ROLLING STOCK.		Present esti-
Number of least states of more than 90 tons mainly analysis of tenden	Number.	mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	<del></del>	
Total	6	\$30,000 00
Number of passenger cars—12-wheel, including official cars	.1	\$8,500 00
Number of passenger cars—8-wheel, including official cars Number of express and baggage cars Number of box freight cars Number of platform cars Number of platform cars	11 2 30	3,600 00
Number of box freight cars	30 65	11,550 00
Number of conductors way cars	1	1,600 00
Other cars	1	500 00
Total :	112	\$64,570 00
Number of locomotives equipped with power brakes		6 14 1
What patterns of power brakes have you in use, and number of locomotives an Locomotives with Westinghouse air brake, 3; locomotives with Eames' air bringhouse air brake, 15.	d cars with	each?
Are your freight care being equipped with automatic couplers as required by a of 1885, as amended by act No. 88, session laws of 1887; Yes.	ct No. 147,	session laws
What pattern or patterns have you adopted for use? Gould and Janney.		
How are your passenger cars heated? Baker heater (hot water).		

# CINCINNATI, SAGINAW & MÁCKINAW RAILWAY COMPANY. 137

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. 1	la Wichiaan
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains	65,021 40,466	65,021 40,466 3,561
Total mileage of trains earning revenue.	109,048	109,048
Passenger traffic.—Road all in State of Michigan. Numbe	. Miles.	Rate.
Number of through passengers carried, earning revenue		Mate.
Total number of passengers carried, earning revenue 64,222		
Number of passengers carried one mile	24.4	\$0 53.96 01.95 02.29 02.21
Freight traffic.—Road all in State of Michigan	_	
Number of tons of through freight carried, earning revenue	Miles.	Rate.
Total tons of freight carried, earning revenue	, 	
Total mileage of through freight Total mileage of local freight Total freight mileage or tone carried one mile Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight	8,192,675 5,319,777 58.0 20.4	
Average amount received for each ton haul		\$0 60.42 01.13 02.00 01.65

# FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

Com 23/4	Freight cei				om	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.		
Products of agriculture:						
Grain	4,183	1,982	6,165	4.25		
Flour Other mill products	1,262 281	102	1,364 281	.94 .19		
Hay	5,936	57	5,993	4.13		
Tobacco	1	"i	8	.01		
Cotton Fruit and vegetables		48	48	.03		
Fruit and vegetables.	1,281	290	1,571	1.08		
Potatoes	180		180	.12		
Products of animals:						
Live stock	1,174	108	1,282	.88		
Dressed meats.	32	420	452	.31		
Other packing house products Poultry, game and fish	245 806		245	.17 .56		
Wool	52 52		80 <b>6</b>   52	.00 10.		
Wool Hides and leather	28	115	143	.10		
	_					
Products of mines:	407	678	1,165	90		
Anthracite coal Bituminous coal	487 1,860	1.672	3,582	.80 2.43		
Stone, sand and other like articles	12,685	2,129	14,814	10.21		
Stone, sand and other like articles	20,160	144	20,804	18.99		
roducts of forest:						
Lumber	58,720	2,775	61,495	42.87		
Logs	975	202	1,177	.81		
Shingles	2,082	2,009	4,091	2.82		
Aanufactures:						
Petroleum and other oils		54	54	.04		
Sugar		743	743	.51		
Naval stores.		.81	81	.06		
Iron, nig and bloom	251	127	378	.26		
Other costings and machiners	436 381	1,446 596	1,882 927	1.80		
Iron and steel rails Other castings and machinery Cement, brick and lime.	1.387	180	1,567	1.0		
Agricultural implements		200	200	1.16		
Wagons, carriages, tools, etc. Wines, liquors and beers		60	60	.04		
Wines, liquors and beers	48	114	162	.11		
Household goods and furniture	148	171	319	. 22		
Merchandise	3,807	4,252	8,059	5.55		
fiscellaneous:						
Other commodities not mentioned above	<b>3,9</b> 88	1,541	5,529	3.81		
Total tonnage	122,826	22,303	145,129	100.00		

# ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company pays one and a half times the company's local first-class freight rates on all local merchandise; and for all produce and through business one and a fourth times the company's local first-class freight rates. The railway company takes freight at depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Fifty-eight miles of wire belonging to the Cincinnati, Saginaw and Mackinaw B. B. Co.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have during the year been in use on your road in the State of Michigan, and on what terms? If repted by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York, N. Y. (allowed mileage) \$2 34

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount pai	d.
Armour Car Lines. American Befrigerator Transit Co.	Chicago, IllSt. Louis, Mo.	İ	18 28 58
Burton Stock Car Co. Chicago, Boston & Liverpool Refrigerator Line	Boston, Mass.	99 6	59 20
Excelsior Horse Car Line	Chicago, Ill.	ł	67
Havens & Co., C. B.  Hicks' Stock Car Co. International Fruit Dealers' Despatch.  I. E. B. Furniture Line. Kansas City Dressed Beef Line	Chicago, Ill.	1	64 64 90 10
Keystone Palace Horse Car Co	Cleveland. O.	318	11
New England Car Co St. Louis Refrigerator Car Co. Southern Despatch Lumbor Line Swift Refrigerator Line Union Refrigerator Transit Co	Boston, Mass		46 56 47 11 36
Total		\$628	

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

March 7, 1896, Peter Moim, citizen, Salzburg. Highway crossing. Inquest-"His carelessness."

# STATE OF MICHIGAN, }88.

Almon B. Atwater, superintendent, and James H. Muir, secretary and treasurer, of the Cincinnati, Saginaw & Mackinaw Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, A. B. ATWATER, Superintendent.

JAS. H. MUIR, Secretary and Treasurer.

Subscribed and sworn to before me this 28th day of March, A. D. 1897.

LAWRENCE F. LANG. Notary Public, Wayne County, Mich.

# ANNUAL REPORT

OF THE

# CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President. M. E. INGALLS, Cincinnati, Ohio.
Vice President, J. D. LAYNG, New York.
Secretary, E. F. OSBORN, Cincinnati, Ohio.
Auditor, P. A. HEWITT, Cincinnati, Ohio.
Treasurer, C. F. COX, New York.
General Manager, C. E. SCHAFF, Cincinnati, Ohio.
General Superintendent, J. Q. VAN WINKLE, Indianapolis, Ind.
Division Superintendent, S. T. BLIZARD (Michigan Div.), Wabash, Ind.
Chief Engineer, G. W. KITTREDGE, Cincinnati, Ohio.
Superintendent of Telegraph, C. S. RHOADS, Indianapolis, Ind.
Local Treasurer, F. D. COMSTOCK, Cincinnati, Ohio.
General Passenger Agent, D. B. MARTIN, Cincinnati, Ohio.
General Freight Agent, E. F. COST, Cincinnati, Ohio.
Attorney (General Counsel), JOHN T. DYE, Indianapolis, Ind.

#### DIRECTORS.

C. VANDERBILT, New York. W. K. VANDERBILT, New York. C. M. DEPEW, New York. J. P. MORGAN, New York. M. E. INGALLS, Cincinnati, Ohio. Terms expire October, 1897. JAMES BARNETT, Cleveland, Ohio. ALEX. McDonold, Cincinnati, Ohio. GEO. A. FARLOW, Boston, Mass. Terms expire October, 1898. GEO. T. BLISS, New York. H. McK. Twombly, New York. J. D. LAYNG, New York. F. W. VANDERBILT, New York. W. P. ANDERSON, Westerly, R. I. Terms expire October, 1899.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: Consolidated as C., C., C. & St. Louis R'y Co., June 27, 1889.

Number of stockholders at date of last election: 2,642.

Number of stockholders in Michigan at same date: 6.

Amount of full paid stock held in Michigan at same date: 178 shares.

Date of annual meeting of stockholders: Last Wednesday in October.

Fiscal year of company ends June 30.

General offices of the company are located at Cincinnati, Ohio.

# CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS R'Y CO. 141

# GENERAL EXHIBIT.

GENERAL EXHIBIT.		,
	Debit.	Credit.
Total earnings from operation Total expenses, including taxes	\$9,879,805 70	518,011,462 62
Net income		\$3,1 <b>31,656</b> 92
Interest on funded debt	2,642,972 11 199,992 90	2,842,965 01
Balance applicable to dividends.		\$288,691 91
Dividends declared (5 per cent), preferred stock	\$500,000 00 211,808 09	
Balance (profit and loss) last year		454,602 37
Received from sundry balances, 7 accounts		7,792 90
Balance forward to next year		\$251,087 18
ANALYSIS OF CAPITAL STOCK.		

Amount authorized by charter or articles of association { Common\$28,700,000 00 }\$88,700,000 00
Par value of shares \$100 00
Par value of shares \$100 00  Number of shares issued \$79,873.35
Amount paid in on common
Amount paid in on preferred
-C., S. & C. preferred stock and scrip assumed in consolidation
Total amount paid in as per books of the company
Paid in per mile of road owned by company, 1,804.74 miles

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
C. & L., mtge., Feb. 1, 1867	7%	Feb. 1, 1897	New York	\$379.000 0
. L. & C., 1st mtge. June 1, 1871 ., I., St. L & C., 1st consol. mtge., March 8,	7%	Sept. 1, 1901	New York	792,000 0
1880	6%	May 1, 1920	New York	717,000 0
., I., St. L. & C., genl. 1st mtge., Aug. 2, 1886	6% 4%	Aug. 1, 1936	New York	7,685,000 (
& I. R. R. 1st mrtge., Jan. 1, 1864	l 7%	Jan. 1, 1899	New York	73,000 (
., C., C. & I. R'y, 1st mrtge., S. F., May 1, 1869 ., C., C. & I. R'y, 1st consol. mtge., June 1,	7%	May 1, 1899	New York	3,000,000 (
1874 ., C., C. & I. R'y, genl. consol. mtge., Jan.	i 7≴	June 1, 1914	New York	4,138,000 (
1. 1884	6≴	Jan. 1, 1934	New York	8,205,000 (
& St. L. R. R., 1st mtge., July 1, 1869	7%	July 1, 1919	New York	2,000,000
& St. L, R'y, 1st mtge., Nov. 1, 1882	6%	Nov. 1, 1912	New York	500,000
. & S. R'y, 1st mtge., Feb. 22, 1871	7%	April 1, 1901	New York	2,000,000
. & S. R'y, 2nd mtg., Jan. 1, 1872 ., C., C. & St. L. R'y, (C., V. & C. R'y), 1st	7%	Jan. 1, 1902	New York	125,000 (
mtge., Jan. 1, 1890	4%	Jan. 1, 1939	New York	5,000,000
., I. & C. R. R., 1st consol. mtg., Jan. 1, 1838 ., C., C. & St. L. R'y, (S. & C. div.), mtge.,	5%	Jan. 1, 1928	New York	2,571,000
Oct. 30, 1890 ., C., C. & St. L. R'y, (W. W. V. div.)	4%	Sept. 1, 1940	New York	1,103,780
mtge., Nov. 1, 1890 ., C., C. & St. L. R'y, (St. L. div. 1st Cole	45.	July 1, 1940	New York	650,000
trust) mtge., Nov. 1, 1890 , C., C. & St. L. B'y, (C., W. & M. B'y div.)	· 4%	Nov. 1, 1990	New York	10,030,000
mtee May 9. 1891	45	July 1, 1991	New York	4,000,000
June 1, 1893	45	June 1, 1993	New York	7,000,000
Solo., Sp. & Cin. R. R., 1st mtge. bonds, Sept. 1, 1871	5≴	Sept. 1, 1901	New York	78,000
	<u> </u>		1	

#### UNFUNDED DEBT.

	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liquid	dated?	Amount.
For equipment For miscellaneous For current balances	To be paid in cash To be paid in cash To be paid in cash		\$546,344 66 878,899 31 3,169,817 39
Total unfunded debt			\$4,594,561 86
	RECAPITULATION.	•	
Total funded debt Total unfunded debt			\$55,016,730 00 4,594,561 36
Total debt liabilities			\$59,611,291 36
Amount of debt liabilities per m Total amount of stock and debt Stock and debt per mile of road	ile of road, 1,804.74 miles, 1,804.74 miles		33,030 40 98,028,123 81 54,817 03
	GENERAL BALANCE SHEET-DR.		
Other investments:	counts		
Stock owned	o branch lines	975,860 67 4,690,973 05	
Cash items:			\$95,396,299 99
CashBills receivable		\$1,318,287 79 11,320 69 170,222 15	
Other assets:  Materials and supplies  Sinking funds  Debit balances from companie	s and individuals	\$396,682 44 328,453 17 662,994 76	
Total	•		\$98,279,210 99
	GENERAL BALANCE SHEET-Cr.		
Capital stock		38,416,832 45	
Funded debt			\$93,433,562 45
Dividends unpaid		\$457,206 75 132,494 64 509,225 00	
Vouchers and accounts		2,070,891 00	3,169,817 39
Other liabilities (list as follows) Accrued interest on bonds not Equipment notes Other deferred liabilities	due	\$438,899 31 546,344 66 440,000 00	
	its		1,425,243 97 251,087 18
	COST OF BOAD AND EQUIPMENT.		
•	Purchased by present company.		
When purchased: Consolidated Original cost to present compan Amount expended since consolid by purchase and consolidation Total cost to date of report	l June 27, 1889. y, of road and equipment	ds acquired	845,303,500 89 40,557,867 88 85,861,368 27
Average cost per mile of road (no Proportion of cost for Michigan	ot including sidings) 1,804.74 miles.		47,575 47 1,671,720 84

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

MAIN LINE.		
Extensions and new sidings New buildings C., S. & C. bonds assumed Stock issued Discount on bonds sold		\$150,938 13 50,145 95 78,000 00 500 00 200,000 00
Total charges.		\$479,584 08
Total charges to property account as above		479,584 08 479,584 08
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	N.	
PASSENGER BARNINGS.  Main line and branches:		
Local fares Through fares	\$28,427 30 4,695 98	
Total passenger fares	\$83,123 23	
Express and baggage	2,031 08 2,929 42	
Total passenger department earnings		\$38,083 73
Per train mile Per mile of road	\$0 66 1,083 77	•
FREIGHT EARNINGS.		
Main line and branches: Local traffic Through traffic	\$40,192 49 52,488 50	
Total freight department earnings.		92,680 99
Per train milePer mile of road	\$1 44 2,634 47	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
Passengee Earnings.		
Main line and branches: Local fares Through fares	2.847.275 61	
Through fares	980,758 75	
Total passenger fares		\$3,828,029 36
Express and baggage	\$358,468 26 532,178 14	
Total passenger department earnings	· · · · · · · · · · · · · · · · · · ·	4,718,675 76
Per train mile	\$0 83 2,567 13	
FREIGHT EARNINGS.  Main line and branches:  Local traffic	10 409 410 KA	
Through traffic	4,544,894 84	
Total traffic.  Total freight department earnings	8,026,813 90	8,026,813 90
Per train mile	\$1 28 4,366 88	
Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile	6,934 01 1 07	12,745,489 66
Transportation earnings per train mile  Miscellaneous receipts from operating account, other than for transportation From rents of tracks, yards and terminals From rents not otherwise provided for	, as follows: \$165,469 84 100,503 12	
		265,972 96
Total		18,011,462 62

0	l'otal mis- ellaneous. :	Proportion for Michigan
ompany: C. C. C. & St. L. B'y Co	<b>\$265,972 96</b>	\$300 0
Total earnings from operation of road	7,078 71 1 09 3,729 78	\$181,064 7
Total income from all sources.	13,011,462 62	1
Proportion of income for Michigan, actual		131,064 7
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
epairs of roadway		\$800,461 7
enewals of rails enewals of ties enewals of ties epairs and renewals of bridges and culverts epairs and renewals of fences, road crossings, signs and cattle guards epairs and renewals of buildings and fixtures epairs and renewals of docks and wharves epairs and renewals of telegraph tationery and printing		317,358 8
epairs and renewals of bridges and culverts.		209,799 ( 69 984 6
apairs and renewals of buildings and fixtures		230.784
epairs and renewals of docks and wharves		2,198 8
epairs and renewals of telegraph		2,198 8 5,214 2 750 4
ationery and printing		750 4
Total		
	•	
MAINTENANCE OF EQUIPMENT.		
<del></del>		#K # #90 F
<del></del>		\$54,630 a
<del></del>		\$54,630 £ 631,511 £ 204,339 £
uperintendenceepairs and renewals of locomotivesepairs and renewals of passenger cars		\$54,630 2 681,511 8 204,839 8 579,378 7
uperintendenceepairs and renewals of locomotivesepairs and renewals of passenger cars		\$54,630 2 631,511 8 204,839 8 579,878 7 4,467 2
uperintendenceepairs and renewals of locomotivesepairs and renewals of passenger cars		\$54,630 1 631,511 8 204,839 8 579,878 7 4,467 2 62,830 4
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of twork cars epairs and renewals of swork cars epairs and renewals of shop machinery and tools tationery and printing		62,330 4 2,432 9
uperintendenceepairs and renewals of locomotivesepairs and renewals of passenger cars		62,330 4 2,432 9
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TRANSPORTATION.		62,330 4 2,432 9 \$1,539,091
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TRANSPORTATION.		62,330 ( 2,432 ( \$1,539,091 (
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TRANSPORTATION.		62,330 2,432 \$1,539,091
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total  CONDUCTING TRANSPORTATION.  uperintendence ungine and roundhouse men uel for locomotives		62,330 2,432 \$1,539,091
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total  CONDUCTING TRANSPORTATION.  uperintendence ungine and roundhouse men uel for locomotives		62,330 2,432 \$1,539,091
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TEANSPORTATION.  nperintendence nperintendence uel for locomotives fator supply for locomotives it, tallow and waste for locomotives		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TEANSPORTATION.  uperintendence ngine and roundhouse men uel for locomotives 7 ater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total  CONDUCTING TEANSPORTATION.  Inperintendence Ingine and roundhouse men uel for locomotives Ater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TEANSPORTATION.  uperintendence ngine and roundhouse men uel for locomotives 7 ater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TEANSPORTATION.  uperintendence ngine and roundhouse men uel for locomotives 7 ater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TEANSPORTATION.  uperintendence ngine and roundhouse men uel for locomotives 7 ater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TRANSPORTATION.  uperintendence under and roundhouse men uel for locomotives rates supply for locomotives til, tallow and waste for locomotives ther supplies for locomotives rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation supplies tation supplies ther supplies tation supplies tation supplies tation supplies thereses tation supplies thereses tation supplies thereses tation supplies thereses tation supplies tation supplies thereses tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies tation supplies ta		\$1,539,091 \$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232 668,642 116,517 488,542 160,703 1,081,426 52,790
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing.  Total.  CONDUCTING TEANSPORTATION.  uperintendence uperintendence uperintendence ingine and roundhouse men uel for locomotives fater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation supplies witching charges—balance are milesce—balance		\$146,525 944,695 789,375 63,762 28,543 23,232 668,642 116,517 488,542 160,703 1,081,428
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing.  Total.  CONDUCTING TEANSPORTATION.  uperintendence uperintendence uperintendence ingine and roundhouse men uel for locomotives fater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation supplies witching charges—balance are milesce—balance		\$1,539,091 \$2,432 (\$1,539,091 \$2,432 (\$1,539,091 \$2,543 \$1,539,091 \$2,543 \$1,539,091 \$2,543 \$1,541,541 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,426 \$1,541,
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of seight cars epairs and renewals of work cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TEANSPOETATION.  uperintendence ngine and roundhouse men uel for locomotives fater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives rain service rain service rain service rain service tation service tation service tation service tation supplies witching charges—balance ar mileage—balance oss and damage louries to persons		\$1,539,091 : \$1,539,091 : \$1,539,091 : \$146,525 : 944,685 : 944,685 : 63,762 : 28,543 : 23,232 : 68,642 : 166,73 : 1,061,426 : 160,73 : 1,061,426 : 102,980 : 302,270 : 102,980 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 99,484 : 90,484 : 9
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TRANSPORTATION.  uperintendence ngine and roundhouse men uel for locomotives it, tallow and waste for locomotives ther supply for locomotives rain supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation service tation supplies witching charges—balance ar mileage—balance ooss and damage. louries to persons learing wrecks dvertising		\$1,539,091 \$1,539,091 \$146,525 944,695 789,375 63,762 28,543 23,232 68,642 116,517 488,542 160,703 1,061,426 52,790 102,980 302,270 102,980 99,484
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing.  Total.  CONDUCTING TEANSPORTATION.  uperintendence unique and roundhouse men uel for locomotives fater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation supplies witching charges—balance ooss and damage— ujuries to persons— loaring wrecks dvertising  witching charges—balance dvertising  witching mecks dvertising		\$146,525 944,695 789,375 68,762 28,543 28,543 28,543 28,543 1,681,426 160,703 1,081,426 160,703 1,081,426 100,334 44,487
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing.  Total.  CONDUCTING TEANSPORTATION.  uperintendence unique and roundhouse men uel for locomotives fater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation supplies witching charges—balance ooss and damage— ujuries to persons— loaring wrecks dvertising  witching charges—balance dvertising  witching mecks dvertising		\$1,46,525 \$1,539,091 \$ \$146,525 944,695 789,375 (63,762 ) 63,762 (63,762 ) 64,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing.  Total.  CONDUCTING TEANSPORTATION.  uperintendence unique and roundhouse men uel for locomotives fater supply for locomotives it, tallow and waste for locomotives ther supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation supplies witching charges—balance ooss and damage— ujuries to persons— loaring wrecks dvertising  witching charges—balance dvertising  witching mecks dvertising		\$1,46,525 \$1,539,091 \$ \$146,525 944,695 789,375 (63,762 ) 63,762 (63,762 ) 64,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,
uperintendence epairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work cars epairs and renewals of shop machinery and tools tationery and printing  Total.  CONDUCTING TRANSPORTATION.  uperintendence ngine and roundhouse men uel for locomotives it, tallow and waste for locomotives ther supply for locomotives rain supplies for locomotives rain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses tation service tation service tation service tation supplies witching charges—balance ar mileage—balance ooss and damage. louries to persons learing wrecks dvertising		\$1,46,525 \$1,539,091 \$ \$146,525 944,695 789,375 (63,762 ) 63,762 (63,762 ) 64,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 66,642 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,044 (61,642 ) 10,

# GENERAL EXPENSES.

GENERAL EXPENSES.		
Salaries of general officers. Salaries of cierks and attendants. General office expenses and supplies		\$83,432 50 220,741 42 50,316 87
Insurance		48,083 36
Law expenses		45,354 51
Insurance Law expenses Stationary and printing (general offices) Other expenses		18,937 <b>79</b> 4,994 <b>78</b>
Taxes		588,108 98
Total		\$1,054,970 16
	Per cent o	
	expenses.	
Maintenance of way and structures  Maintenance of equipment	15.27	\$1,746,751 60 1,539,091 38
Conducting transportation. General expenses, including taxes.	56.93	5,738,985 51
General expenses, including taxes.	10 47	1,054,970 16
Total operating expenses and taxes		10,079,798 60
Operating expenses and taxes per mile of road.		5,488 78
Operating expenses and taxes per train mile run, for trains, earning revenue,	94	
Proportion of operating expenses and taxes for Michigan		112,000 49
Total proportion of expenses for Michigan		112,000 49
Percentage of expenses to earnings \$131,064.72.	85.45	542 52
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 11,371,067 miles  Proportion of operating expenses and taxes for Michigan.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings \$131,064.72.  Not earnings per mile of road.  Not earnings per train mile		15
• •		
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Goshen, Ind., to Benton Harbor, Mich., November 13, 1892.  The above applies to "Michigan division," formerly C. W. & M. R'y, only part State of Michigan.	of road e	ntering the
MAIN LINE.	Miles.	M:1
To Michigan According to the Accidents	M1108. 35.14	Miles.
In Michigan, from Benton Harbor to State line	578.77	
In Indiana from various to various	554.2 <b>2</b>	
In Illinois from various to various	478.50	
Total length completed		1,636.63
Length of double track on main line	55.38	•
BRANCHES.		
From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From Harrison, O., to Hagerstown, Ind.	6.44 8.02	
From East Alton, Ill., to Alton, Ill.	4.20	
From Harrison, O., to Hagerstown, Ind.	62.38	
From Carey, O., to Findlay, O.	15.34	
From Columbus, Ind., to Greensburg, Ind.	15.34 7.70 26.21	
From Carey, O., to Findlay, O. From Valley Junction, O., to Harrison, O. From Columbus, Ind., to Greensburg, Ind. From Martinsville, Ind., to Fairland, Ind.	87.84	
Total length of branches owned by company		168.11
Total length of road belonging to this company (excluding trackage. 33.37)		1,804.74
Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above enum	erated	35.14 8.21
Aggregate length of tracks in Michigan belonging to this company, computed track.		43.85
Gauge of track, 4 feet 8% inches.		
Proprietary or leased roads operated by this company.		
	l miles. I	n Michigan.
Total miles operated by this company	l miles. I 1,838.11	n Michigan. 85.14

Number of bridges and trestles in Michigan.	Aggregate
Wooden treetles 81	length feet. 1,878
Total	1,878
Crossings.—Railroad and highway.	
What railroads cross your road either over or under your grade in this State, and where?	
Over: Michigan Central B. B. at Niles (main line). Michigan Central R. B. at Niles (South Bend div.)	
Number of crossings of highways at grade in this State	56 8 1
What pattern or patterns in use? Pneumatic.	
Number of crossings of highways over or under railroad: over, 2; under, 1	3 2
Are your frogs and guard rails blocked as required by act 174, Session Laws of 18837 Yes.	
How are they treated? Wooden blocks.	
Stations.	
Number of stations on whole lines	521 8
Employés,	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	9, <b>43</b> 2 84
Classify your employés as per following list:	Number.
Baggagemen	80 514
Conductors Engineers	265 437
Firemen Laborers	437 2,450
Shopmen. Yardmen Others.	1,625 629 2,995
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	70.28
Road bed and track.	
Number of track sections in Michigan.	5 7.03
Average lengths of sections, miles  Average number of men in each section gang	7.03 4
Average number of men in each eection gang.  Number of new ties put in whole line during the year.  Number of new ties put in track and sidings in Michigan.	781,459 7,927
Average number of new ties per mile of road	398
Steel [tons, 4,404.1,759], miles Total miles of track laid with new rails	85.04 85.04
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, linear feet	41
Timber culverts replaced during the year:	Number.
With iron pipe	70 5
With timber	40

ROLLING STOCK.		
		Present esti-
		mated value. \$1,944,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	27	67,500 00
Total	459	\$2,011,500 00
	<u> </u>	
Number of nessenger care—12-wheel, including official care	22	\$80,700 00
Number of passenger cars—12-wheel, including official cars  Number of passenger cars—8-wheel, including official cars	248	496,000 00
Number of express and baggage cars	97	140.500 00
Number of box freight cars	8, <b>648</b> <b>63</b> 8	8,286,000 00 185,000 00
Number of platform cars	1.660	382,000 00
Number of ore cars	1,195	268,800 00
Number of conductors' way cars	211 382	
	8,101	\$4,925,100 00
Number of locomotives equipped with nower brokes		487
Number of locomotives equipped with power brakes		867
Number of freight cars equipped with power brakes		8,894
What patterns of power brakes have you in use, and number of locomotives and cars Locomotives, with Westinghouse air brakes	with	each?
Locomotives, with New York air brakes		78
Locomotives, with steam driver brakes.		. 14
Locomotives, with New York air brakes Locomotives, with steam driver brakes Passenger cars, with Westinghouse air brakes. Freight cars, with Westinghouse air brakes.		. 367 . 8,894
Total		4,698
Are your freight cars being equipped with automatic couplers as required by Act No of 1885, as amended by act No. 88, session laws of 1887?	. 147,	, session laws
Yes.		
Yes.  What pattern or patterns have you adopted for use?  Master Car Builder's Standard.		
Yes.		
Yes.  What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated?		
What pattern or patterns have you adopted for use? Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.		Yo Mishimo
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li		In Michigan.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4,986 4,751	56,884 60,758
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli  Miles run by passenger trains during the year 5.59  Miles run by freight trains during the year 6,07  Miles run by mixed trains 22	4,986 4,751 01,400	56,884 60,758 4,726
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year 5.59  Miles run by freight trains during the year 6,07  Miles run by mixed trains 22  Total mileage of trains earning revenue 11,87	4,986 4,751 01,400	56,884 60,758 4,726
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year 5.59  Miles run by freight trains during the year 6,07  Miles run by mixed trains 22  Total mileage of trains earning revenue 11,87  Passenger traffic.—Entire lines.	4,986 4,751 01,400 11,087	56,884 60,758 4,726 7 122,368
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire lit  Miles run by passenger trains during the year 5.59  Miles run by freight trains during the year 6,07  Miles run by mixed trains. 22  Total mileage of trains earning revenue 11,87  Passenger traffic.—Entire lines.  Number. Mi	4,986 4,751 01,400	56,884 60,758 4,726
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year 5.59  Miles run by freight trains during the year 6,07  Miles run by mixed trains 22  Total mileage of trains earning revenue 11,87  Passenger traffic.—Entire lines.	4,986 4,751 01,400 11,087	56,884 60,758 4,726 7 122,368
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year	4,986 4,751 01,400 11,087	56,884 60,758 4,726 7 122,368
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087	56,884 60,788 7 122,388 Rate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087	56,884 60,788 7 122,388 Rate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087	56,884 60,788 7 122,388 Rate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087	56,884 60,788 7 122,388 Rate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087 les.	56,884 60,788 7 122,388 Rate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087 les.	56,884 60,788 0 4,726 7 122,368 Bate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087 les.	56,884 60,788 0 4,726 7 122,368 Bate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire lit  Miles run by passenger trains during the year 5,59  Miles run by freight trains during the year 6,07  Miles run by mixed trains. 20  Total mileage of trains earning revenue 11,87  Passenger traffic.—Entire lines.  Number.  Number of through passengers carried, earning revenue 833,902  Number of local passengers carried, earning revenue 4,840,265  Total number of passengers carried, earning revenue 5,177,167  Number of passengers carried one mile 189,843,185  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Estimated coet of carrying each passenger one mile.	4,986 4,751 01,400 71,087 les.	56,884 60,788 0 4,726 7 122,368 Bate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4,986 4,751 01,400 71,087 les.	56,884 60,788 0 4,726 7 122,368 Bate.
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4,9364,751 01,400 (1,087) 36.7	56,884 60,788 0 4,726 7 122,368 Rate. 7 01,996 02,046 02,016 01,562
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4,9364,751 01,400 (1,087) 36.7	56,884 60,788 0 4,726 7 122,368 Rate. 7 01,996 02,046 02,016 01,562
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4, 936 4, 751 01,400 (1,087 36.7 36.7	8 56,884 60,788 1 4,726 7 122,368 Rate. 8 074 01,996 02,046 02,046 02,016 01,562
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entire li  Miles run by passenger trains during the year 5.59 Miles run by freight trains during the year 6.00 Miles run by mixed trains. 11,87  Total mileage of trains earning revenue 11,87  Passenger traffic.—Entire lines.  Number.  Number of through passengers carried, earning revenue 383,92 Number of local passengers carried, earning revenue 5,177,167  Number of passengers carried, earning revenue 5,177,167  Number of passengers carried one mile 189,843,185  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Estimated cost of carrying each passenger one mile.  Passenger traffic.—In State of Michigan.  Number of passengers carried, earning revenue 8,600 Number of local passengers carried, earning revenue 66,978  Total number of passengers carried, earning revenue 75,578  Number of passengers carried, earning revenue 75,578  Number of passengers carried, earning revenue 75,578  Number of passengers carried, earning revenue 75,578  Number of passengers carried, earning revenue 75,578  Number of passengers carried, earning revenue 1,66,904  Average amount received from each passenger.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.	4, 936 4, 751 01,400 11,087 1,087 36.7	8 56,884 60,788 1 4,726 7 122,368 Rate. 7 90 74 01,986 02,046 02,016 01,562
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.  Train mileage.  Entireli:  Miles run by passenger trains during the year	4, 936 4, 751 01,400 11,087 1,087 36.7	8 56,884 60,788 1 4,726 7 122,368 Rate. 7 90 74 01,986 02,046 02,016 01,562

Freight traffic.—Entire lines.	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue	4,558,094 8,488,454		
Total tons of freight carried, earning revenue	8,041,548		
Total mileage of through freight		909,744,481 381,494,246	
Total freight mileage or tons carried one mile	1	,291,238,727	
Average ton haul for through freight  Average ton haul for local freight		199.6 109.5	
Average ton haul for all freight		160.6	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight Estimated cost of carrying one ton one mile			90 99.817 00.500 00.918 00.622 00.482
Freight traffic.—In State of Michigan	<b>.</b> .		
Number of tons of through freight carried, earning revenue	814,815 190,578		
Total tons of freight carried, earning revenue	504,893		
Total mileage of through freight			
Total freight mileage or tons carried one mile		14,900,481	
Average ton haul for through freight  Average ton haul for local freight			
Average ton haul for all freight		29.5	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight  Estimated cost of carrying one ton one mile			90 18,357 00,500 00,913 00,622 00,531

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

a	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	868,056	294,686	1,162,742 265,247	14.46 3.30	
FlourOther mill products	868,056 210,919 100,235	54,328 86,275		3.30 1.70	
Other mill products	74,752	50,176	136,510 124,928	1.54	
Hay	11,547	10,142	21.689	.27	
Tobacco	11,021	63,209	63,209	.79	
Cotton Fruit and vegetables.	50,614	101,620	152,234	1.89	
Products of animals:					
Live stock	136,124	189,212	325,336	4.05	
Dressed meats	35,116	92,114	127,230	1.58	
Other packing house products	14,994	31,187	46,181	.57	
Poultry, game and fish Wool Hides and leather	14,829	7,854	22,683	.28	
Wool	1,007	4,296	5,308	.07	
Hides and leather	5,287	15,242	20,479	.23	
Products of mines:					
Anthracite coal Bituminous coal		97,538 760,320	99,533	1.24	
	864,136	760,320	1,624,456	20.20	
Coke	12,420	97,238 34,266	109,658 54,266	1.86 .68	
OresStone, sand and other like articles	308,063	128,632	486,695	5.48	
Salt	5,631	81,229	86,860	1.08	
Products of forest:	917 000	400 010	979 997	10.92	
Lumber, logs and shingles	217,909	660,318	878,227	10.92	
Manufactures:	44.00	410.005	105 050	4 20	
Petroleum and other oils	14,065	118,287	127,352	1.58 1.26	
Sugar	2,919 6,865	98,290 12,246	101,149	.24	
Naval stores	78,078	44,615	19,111	1.58	
Iron, pig and bloom Iron and steel rails	11,414	4,620	122,693 16,034	.20	
Other castings and machinery	171,519	91,430	262,949	3.27	
Bar and sheet metal	39,693	81,725	121,418	1.51	
Cement, brick, and lime	137,411	72,416	209,827	2.61	
Agricultural implements	17,588	9,515	27,053	.84	
Wagone carriages tools atc	6,541	3,290	9,831	.12	
Wines, lignors and hears	68,717	29,741	96,458	1.20	
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture	19,501	7,296	26,797	.33	
Merchandise	563,185	374,212	937,397	11.66	
Miscellaneous: Other commodities not mentioned above	81,788	118,290	200,013	2.49	
Total tonnage	4,148,818	3,892,730	8,041,548	100.00	

## FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded,

Commodity,	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
10	n this road. Whole tons.	roads and other carriers Whole tons.	Whole tons.	Per cent.	
roducts of agriculture:					
Grain	2,592	8,011	10,603	2.10	
Flour Other mill products	19,920	78,281	98,151	19.44	
Hay	832 417	4,116 845	4,948 1,262	.96 .25	
Tohacco	50	101	1,202	.08	
Tobacco Fruit and vegetables	15,009	45,629	60,638	12.0	
roducts of animals:		!			
Live stock	331	830	1,161	.22	
Dressed meats	152	201	353	.07	
Other packing house products	982	1,948	2,928	.58	
Poultry, game and fish	29	72	101	.07	
Wool Hides and leather	38 292	113	151 1,262	.00	
	272	***	1,200	.2	
roducts of mines: Anthracite coal		15,551	15.551	8.0	
Bituminous coal		58.014	58,014	10.5	
Bituminous coal	8,276		85,444	7.0	
Salt	6,230	39,261	45,491	9.0	
roducts of forest:					
Lumber	40,434	78,115	118,549	28.44	
lanufactures:				_	
Petroleum and other oils		151	151	.0	
Sugar Iron, pig and bloom	2,471	11,161	101 13,632	.0 2.7	
Iron and steel rails	2,407	855	1,262	.2	
Iron and steel rails Other castings and machinery	1.330	3,618	4.948	.9.	
Bar and sheet metal	84	820	404	.0	
Cement, brick and lime	249	761	1,010	.2	
Agricultural implements	290	821	1,111	.2	
Wagons, carriages, tools, etc.	402	1,416	1,818	.8	
Wines, liquors and beers Household goods and furniture	346 599	1,068 2,127	1,414 2,726	.2 .5	
Merchandise	9,580	15,261		4.9	
fiscellaneous:					
Other commodities not mentioned above	499	1,218	1,717	.8	
Total tonnage	111,852	398,041	504,893	100 0	

# ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Fixed minimum rate for business on entire system of \$317,572 per annumbased on 40% of gross earnings. If 40% of gross earnings exceeds minimum excess is paid by company at end of year. They do all varieties of express business, we receiving their freight at our stations only.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
All lines owned by Western Union Telegraph Company. Number of miles unknown. Railway company has free use of one wire for railroad purposes.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURED.

January 25, Thomas Glavin, brakeman, Niles. Coupling.

March 12, E. Rodabaugh, engineer, Benton Harbor. At station; getting off engine.

June 23, A. E. Atwood, trespasser, Benton Harbor. Fell from car.

July 30. D. Crawley, engineer, Benton Harbor. At station; getting off engine.

August 1, Drake Clifford, fireman, Benton Harbor. Fell from engine.

August 11, Jno. Barke, trespasser, Benton Harbor. At station.

August 18, Mrs. Seeley, Niles. Highway crossing.

August 18, Mrs. Davis, Niles. Highway crossing.

September 16, C. M. Hutchins, conductor, Benton Harbor. Fell from tank.

September 23 Geo, Shimm, brakeman, Benton Harbor. Fell from car.

October 27. Henry Knott, trespasser, Niles. Walking on track.

November 27, W. S. Ferguson, conductor, Berrien Center. Fell from car.

November 24, H. E. Brown, conductor, Sodus. Derailment.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

O		Killed.				
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars ? Derailments Falling from trains Jetting on and off trains Highway crossings Miscellaneous Trespassers on trains Trespassers on tracks					1 1 3 2 2	
Total					8	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	18
Number of easualties purely accidental	10
Number resulting from lack of caution, carelessness, or misconduct.  Trespassers and tramps killed or injured.	3
Trespassers and tramps kined or injured	

# CLASSIFCATION OF RMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total
Brakemen Conductors Engineers Firemen		2 4 1	2 4 1
Total		8	8

STATE OF OHIO, COUNTY OF HAMILTON, 88.

E. F. Osborn, Secretary and P. A. Hewitt, Auditor of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1898, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

E. F. OSBORN, Secretary. P. A. HEWITT, Auditor.

Subscribed and sworn to before me this 25th day of March, A. D. 1897.

JOSEPH MOSES, Notary Public.

## ANNUAL REPORT

OF THE

# DETROIT, GRAND HAVEN & MILWAUKEE RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Secretary and Treasurer, JAMES H. MUIR, Detroit, Michigan. General Superintendent, F. H. McGUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Michigan. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HERBERT ROBERTS, Fort Gratiot, Michigan. MasterCarBuilder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant General Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant General Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

CHARLES M HAYS, Montreal, Province of Quebec.

A. B. ATWATER, Detroit, Michigan.
CHARLES BUNCHER, Detroit, Michigan.
JOSEPH HOBSON, Montreal, Province of Quebec.
GEORGE JEROME, Detroit, Michigan.
E. W. MEDDAUGH, Detroit, Michigan.
CHARLES PERCY, Montreal, Province of Quebec.
JOHN PEIDGEON, Jr., Detroit, Michigan.
W. J. SPICER, Detroit, Michigan.
Terms expire 4th October, 1897, or when successors are appointed.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 7th March, 1834, as the Detroit & Pontiac Railroad Co. Number of stockholders at date of last election: 11.
Number of stockholders in Michigan at same date: 6.
Amount of full paid stock held in Michigan at same date: \$300.
Date of annual meeting of stockholders: First Monday in October.
Fiscal year of company ends: 31st December.
General offices of the company are located at Detroit, Michigan.

#### GENERAL EXHIBIT.

GENERAL EXHIBIT.		
	Debit.	Credit.
Total expenses, including taxes.	\$903,577 41	\$977,820 97
Net income		\$74,243 56
Interest on funded debt	\$324,500 00 27,009 88	851,509 88
Balance for the year, a deficit of	\$277,266 32	
guaranties		\$277,266 32
	\$277,263 32	\$277,286 <b>82</b>
ANALYSIS OF CAPITAL STOCK.		
Par value of shares \$50 00 Number of shares issued \$0,000	\$1,500,000 00	\$1,500,000 00
Total amount paid in as per books of the company		\$1,500,000 00
Paid in per mile of road owned by company, 189 miles		7,936 51

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding
Equipment mortgage bonds, issued Nov. 14, 1878. Consolidated mortgage bonds, issued Nov. 15, 1878. Mortgage on land forming part of Detroit depot. Mortgage on land forming part of Detroit depot.	6% 6% 5%	Nov. 14, 1918 Nov. 15, 1918 Oct. 1, 1900 On demand	In New York or London	8,200,000 0 146,000 0

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous.		\$1,975,976 11

# RECAPITULATION.

Total funded debt	\$5,426,000 00 1,975,976 11
Total debt liabilities	\$7,401,976 11
Amount of debt liabilities per mile of road, 189 miles	39,163 89 8,901,976 11 47,100 40

# GENERAL BALANCE SHEET.-DR.

Construction and equipment account		\$7,065,492 88
Cash	\$18,548 10 100,400 02 27,003 01	145.946 18
Other assets: Debit balances from companies and individuals	\$879,807 17	•
Grand Trunk Railway Company of Canada for interest coupons held for payer guaranties, per contra	ente under	379,807 17 1,310,790 48
Total		\$8,901,976 11
GENERAL BALANCE SHEETCr.		
Capital stock		\$1,500,000,00
Funded debt		5,426,000 00
Unfunded debt:		\$6,926,000 00
Interest unpaid	\$78,093 40	
Vouchers and accountsOther liabilities:	587,152 23	
Grand Trunk Railway Company of Canada for payments under guaranties	1,810,780 48	1,975,976 11
M-4-3		
Total		\$8,\$01,\$76 11
COST OF ROAD AND EQUIPMENT.		
PURCHASED BY PRESENT COMPANY.		
When purchased: September 4, 1878. Transferred by receiver, October 19, 1878 Original cost to present company, of road and equipment. Amount expended since purchase, account of construction. Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 189 miles. Proportion of cost for Michigan		\$6,700,000 00 319,781 83 45,761 00 7,065,492 33 37,383 56 7,065,492 38
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Improvement of track—extensions and new sidings		\$9,056 11
Total charges		\$9,056 11
Total charges to property account as above Property sold and credited Net addition to property account		9,056 11 831 00 8,225 11
ANALYSIS OF EARNINGS ROAD ALL IN STATE OF MI	CHIGAN.	
Main line and branches:		
mais line and orancies: Local fares	\$853,122 52 12,048 94	•
Total passenger fares	\$365,166 46	
Express and baggage	27,762 71 80,227 38	
MailsOther sources	80,227 88 8,573 10	
Total passenger department earnings	······································	\$426,729 60
Per train mile	<b>\$0</b> 87 <b>2,25</b> 7 83	

PREIGHT BARNINGS.		
Main line and branches: Local traffic. Through traffic.	\$417,746 84 77,332 01	
Total traffic	\$495,078 35	
Total freight department earnings		\$495,078 35
Per train mile	\$1 18 2,619 46	
Total transportation earnings, entire line		\$921,807 95
Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation, as follows:	\$4,877 29 1 01	
From switching charges balance From rents of tracks, yards and terminals From rents not otherwise provided for	45,331 00 7,506 78 3,175 24	
Total		56,018 02
Total earnings from operation of road		\$977,820 97
Total earnings per mile of road	\$5,178 66	
Total earnings per train mile Proportion of earnings for Michigan. Total earnings per mile of road in Michigan.	977,820 97 5,173 <b>66</b>	
Total income from all sources		\$977,820 97
Proportion of income for Michigan.		977,820 97
analysis of expenses.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway	• • • • • • • • • • • • • • • • • • • •	\$69,777 07 28,886 00
Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Stationery and printing Total		42,055 60 15,097 01 9,361 20 16,164 64 9,414 12 138 90 \$185,894,54
MAINTENANCE OF EQUIPMENT.		
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars. Repairs and renewals of shop machinery and tools. Stationery and printing. Other expenses.		\$2,314 79 60,124 28 20,401 65 38,520 65 58 10 9,068 76 181 54 3,471 75
Total		\$134,141 52

# CONDUCTING TRANSPORTATION.

Superintendence Ragine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and wate for locomotives Other supplies for locomotives Train service Train service Train service Switchmen, flagmen and watchmen Telegraph expenses Station service Station service Btation service Station service University of equipment Loss and damage Injuries to persons Clearing wrecks Advertising Outside agencies Commissions Rent of buildings and other property Stationery and printing Total	\$10,221 85 89,536 00 69,832 79 3,729 74 2,110 72 1,614 75 54,112 84 20,632 87 87,851 45 25,114 52 118,136 16 11,682 23 122,639 00 19,500 00 2,073 88 5,507 57 146 85 4,017 79 17,587 48 6,860 83 5,022 24 \$528,018 67
GENERAL EXPENSES.	
Salaries of general officers. Salaries of cierks and attendants General office expenses and supplies Law expenses Stationery and printing (general offices) Taxes.  Total	\$7,186 98 11,029 37 1,012 89 5,787 41 3,180 14 170 57 27,205 82 \$35,522 68
RECAPITULATION OF EXPENSES.  Per cent of	
Maintenance of way and structures. 20.57 Maintenance of equipment 14.85 Conducting transportation 58.44 General expenses, including taxes 6.14	\$185,894 54 184,141 52 528,018 67 55,522 68
Total operating expenses and taxes. 100.00	\$908,577 41
Operating expenses and taxes per mile of road	4,780 88
miles. Proportion of operating expenses and taxes for Michigan.	908,577 41
Total proportion of expenses for Michigan	\$903,577 41
Percentage of expenses to earnings 92.41 Net earnings per mile of road Net earnings per train mile	892 82 08
Percentage of expenses to earnings. 92.41 Not earnings per mile of road	892 82 08
Percentage of expenses to earnings	892 82 —————
Percentage of expenses to earnings	392 82 08 
Percentage of expenses to earnings	
Percentage of expenses to earnings	08

# Gauge of track, 4 feet 81/2 inches.

Number of bridges and trestles in Michigan.  Number.	Aggregate length, feet.
Iron bridges25Wooden trestles37	
Total 62	
Swing bridges in Michigan.	
How many on your line	2
Where located, when built, and length of draw span? Near Ferrysburg, one in 1870, two openings, 60 feet each. Near Ferrysburg, one in 1884, two openings, 75 feet each.	
Character of structure:	
Material of which constructed: fron.	
Height above water, and depth of water under bridge: 1870 bridge, height 9 feet 6 inches; depth of water 16 feet. 1884 bridge, height 8 feet 7 inches; depth of water 24 feet.	
How swung, by engine or hand power: Hand power.	
Approaches straight or curved: Two straight and two curved.	
Do you require all trains to come to full stop before crossing a draw, and how are they signed. By distant semaphores.	naled?
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Grand Trunk B'y 4 miles west of Detroit station. Detroit & Bay City R. R. 4 miles west of Detroit station. Michigan Air Line B'y at Pontiac. Flint & Pere Marquette R. R. at Holly. Chicago & Grand Trunk R'y at Durand. Ann Arbor R. R. at Durand. Cincinnati, Saginaw & Mackinaw R. R. at Durand. Jackson, Lansing & Saginaw R. R. at Owosso. Detroit Lansing & Northern B. R. at Ionia. Lowell & Hastings R. R. at Lowell. Grand Rapids & Indiana R. R. at Grand Rapids, Chicago & West Michigan R'y at Grand Rapids and Ferrysburg.	
What railroads cross your road either over or under your grade in this State, and where? Under: Muskegon, Grand Rapids & Indiana R. R. at Berlin.	
At what crossing: are interlocking and derailing switches in operation? Milwaukee Junction—crossing of the Detroit & Bay City R. R.	
What pattern or patterns have you adopted? Union Switch and Signal Company's.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen  Number of crossings at which there are electric or automatic signals	251 86 2
What pattern or patterns in use? Electric skeleton bells with push button.	
Number of crossings of highways over or under railroad: over, 15; under, 9	24
Number of highway bridges 18 feet above track	10 5
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws of 18887 Yes.	
How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines	

# Employés.

	Employé	J.		
Number of persons regularly empl Same in Michigan	oyed on all roads opera	ted by company, is	ncluding officials	1,253 1,242
Classify your employés as per following list:				Number.
Baggagemen Brakemen Conductors Kngineers Firemen Laborers Shopmen Yardmen Others				24 50 26 43 47 444 152 36 481
	REPAIRS AND RE	DIEWALS.		
	Fencing in Mi	chigan.		
How many miles of fencing have	you			885
	Road bed and	track.		
Number of track sections in Mich Average lengths of sections, mile Average number of men in each in Number of new ties put in whole Number of new ties put in track Average number of new ties per in New rails put in track: Steel, tons 1,327, miles	section gang line and sidings during and sidings in Michiga nile of road and siding	the year		37 5 4 117,235 117,235 454 12
	Bridges and ou	lverts.		
Timber culverts replaced during With iron pipe With sewer pipe With timber New bridges built during the yea				Number. 14 7 5 2
Location.	Kind.	Material.	Month built.	feet in length.
Near Ferrysburg	Through plate girder	Iron	February	110
Number of conductors' way cars Other cars as follows: Charcoal cars Combination freight and cattle Furniture cars Auxiliary cars Total	neel, including official of cars	dusive of tender	Number. ma  29	\$20,500 00 \$140,000 00 \$140,000 00 \$20,500 00 88,900 00 21,000 00 101,730 00 8,000 00 14,500 00 20,500 00 \$318,700 00
Number of locomotives equipped Number of passenger-train cars of Number of freight cars equipped	with power brakes equipped with power brakes	rakes	29 45 24	

What patterns of power brakes have you in use, and number of locomotives and cars with each? Locomotives, with Westinghouse air brakes, 26.
Locomotives, with Eames' air brakes, 3.
Cars, with Westinghouse air brakes, 69.

Are your freight cars being equipped with automatic couplers as required by act No. 147, esssion laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould and Janney.

How are your passenger cars heated?
Baker heater (hot water) and steam he at.

#### MILEAGE, TRAFFIC, ETC.

Train mileage.	:	Entire lines. In l	Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		267,252	441,555 267,252 201,996
Total mileage of trains earning revenue		910,808	910,808
Passenger traffic.—Road all in State of I	lichigan.		
	Numbers	. Miles.	Bate.
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	8,025 547,988		
Total number of passengers carried earning revenue	550,958	3	
Number of passengers carried one mile  Average distance carried		16,016,951 29.1	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			\$0 66.28 02.11 02.29 02.28
Freight traffic.—Road all in State of M	lichigan.		
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	95,813 482,879		
Total tons of freight carried, earning revenue	528,69	l .	
Total mileage of through freight			
Total freight mileage or tons carried one mile		41,696,949	
Average ton haul for through freight  Average ton haul for local freight		. 189.0 . 54.5	
Average ton haul for all freight		78.9	
Average amount received for each ton haul			\$0 93.64 00.48 01.77 01.19

# MICHIGAN RAILROAD RETURNS, 1896.

# FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

# Company's material excluded.

a	Freight	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	83,415 11,517	82,040	65,455	12.88
Flour	11,517	57,606	69,123	13.07
Other mill products	2,724 12,239	18,060	20,784	8.98
Tobacco	12,239	6,235 150	18,474	8.50
Tobacco	14.809	8,299	23,108	.08 4.87
Potatoes.	7,354	2,850	10,204	1.98
Products of animals:				
Live stock	10,461	8,104	18,565	3.51
Dressed meats. Other packing house products Poultry, game and fish	100	5,210	5,810	1.01
Other packing house products	61	161	222	.04
Poultry, game and fish.	340	1,667	2,007	.38
Wool Hides and leather	449 593	226 1,388	675 1,983	.18 .38
Products of mines:				
Anthracite coal	5,432	26,262	31,694	6.00
Anthracite coal Bituminous coal	5,718	6,772	12,490	2.36
Coke	36	221	257	.05
Ores Stone, sand and other like articles	37	77	114	.02
Stone, sand and other like articles	81,236	2,194 1,238	33,430 1,238	6.32 .23
Products of forest:		• •	· ·	
Lumber	10.483	40,660	51.148	9.67
Logs	1,056	4.161	5,217	.99
Shingles	1,010	1,320	2,330	.44
Manufactures:	•			
Petroleum and other oils	99 116	1,442 2,024	1,541   2,140	.29 .41
Sugar	709	2,162	2,871	.54
Iron, pig and bloomIron and steel rails	30	132	162	.03
Other castings and machinery	988	2,269	2,637	.50
Bar and sheet metal.	•••	879	879	.17
Gement, brick, and lime.	4.232	7,718	11.950	.17 2.26 .22
Agricultural implements	244	934	1,178	.22
Wagons, carriages, tools, etc	1,409	497	1,906	.36
Wines, liquors and beers	291	364	655	.12
Household goods and furniture	5,480	1,391	6,871	1.30
Merchandise	28,778	39,308	68,086	12.88
Miscellaneous:				
Other commodities not mentioned above	25,474	28,360	53,834	10.18
Total tonnage	216,313	312,381	528,694	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company has exclusive right for passenger trains, and pays \$50.00 per day, for not exceeding 5,000 lbs. per day, and 60 cents per 100 lbs. excess, carrying light freight, money, etc., and taking freight to and from depots. The total payments for any one year not to be less than \$20.00. \$20,000.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

189 miles of wire belonging to the Western Union Telegraph Co., using the railroad company's poles. A second wire, 46½ miles long, of same telegraph company, with poles, runs between Detroit and Holly.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York, N. Y.; allowed mileage	\$4,215 84 248 20
	<b>\$4,16</b> 8 54

Both these companies get the fares for seats and berths.

# Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transit Co. Armour Car Lines. Armes Palace Horse Car Co. Burton Stock Car Co. California Fruit Transportation Co.	St. Louis, Mo	\$2 97 146 36 3 04 8 55 80
Canada Cattle Car Co. Chicago Refrigerator Car Line Chicago Car and Coal Co. Continental Fruit Express. Commerce Dispatch Line	Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Indianapolis, Ind.	2 02 88 40 1 72 1 23 1 48
Cudahy Milwaukee Refrigerator Line	Milwaukee, Wis South Omaha, Neb Indianapolis, Ind Kansas City, Mo St. Louis, Mo.	81 1 50 6 17 1 00 50
Detroit Iron Furnace Co.  Eureka Transportation Co.  Excelsior Horse Car Line.  Freeman Brothers.  Hammond Refrigerator Line.	Detroit, Mich. Indianapolis, Ind. ('hicago, Ill. Pontiac, Mich. Hammond, Ind.	8 88 2 56 49 1 48 169 47
Havens, C. B. & Co. Hicks' Stock Car Co. International Fruit Dealers' Despatch. I. E. B. Furniture Line Kingman & Co.	Omaha, Neb. Chicago, Ill. Chicago, Ill. Atlanta, Ga. Peoria, Ill.	1 18 49 8 88 1 89 88
Kingan Refrigerator Line Kansas City Refrigerator Car Co Libby, McNeil & Libby Refrigerator Line Live Poultry Transportation Co Lipton Refrigerator Line	Indianapolis, Ind	1 35 08 97 8 69 85 19
Michigan Ammonia Works	Detroit, Mich	6 24 2 17 594 00 66 85 11 55
National Despatch Line. Chicago, Boston & Liverpool Refrigerator Line. New York Despatch Refrigerator Line. New England Car Co. North & South Rolling Stock Co. Overland Fruit Despatch.	St. Albans, Vt	
Omaha Packing Co Ohio & Pennsylvania Coal Co Pittsburg Fast Flour Line Pittsburg Consolidated Coal Co Provision Dealers' Despatch Rend & Co., W. P	South Omaha, Neb. Cleveland, O. Pittsburg, Pa. Pittsburg, Pa. Chicago, Ill. Chicago, Ill.	09 07 25 40 1 44 16
St. Charles Car Co. St. Louis Refrigerator Car Co. Southwestern Millers' Despatch. Street's Stable Car Lines. Swift Refrigerator Line Southern Despatch Lumber Line	St. Louis, Mo. St. Louis, Mo. Kansas City, Mo. Chicago, Ill. Chicago, Ill. Louisville, Ky.	1 01 4 48 49 5 91 158 14
Union Iron Works Union Tank Line Union Refrigerator Transit Co Wesver-Getz Co White Star Line Western Rolling Stock & Equipment Co	Detroit, Mich. New York, N. Y. St. Louis, Mo. Chicago, Ill. Kansas City, Mo. Buffalo, N. Y.	105 00 40 16 22 47 4 20 1 76 18
Total		\$5,996 25

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

March 23, Thomas Verrio, trespasser, Spring Lake. Run over by a night train.

May 13, Bessie Swifink, child, Coopersville. Highway crossing. Inquest, "Train running fast."
July 16, Nicholas Harboard, trespasser, Lowell. Walking on track. Inquest, "Company exonerated."
August 25, John Greening, wiper, Detroit, Fell off engine; accidental. Inquest, "Company exonerated."
November 4, Charles Shields, brakeman, Pewamo. Slipped in front of moving cars. No inquest.

#### INJURED.

January 6, 1896, Walter Freior, brakeman, Owosso. Coupling; lack of caution.

November 13, 1896, R. Waterworth, brakeman, Detroit. Coupling; lack of caution.

December 28, 1896, John Spaven, switch tender, Lake Shore Junction, Detroit. Run over; lack of caution.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.			Injured.	
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Coupling cars. Falling from trains.		1 1			2	
Highway crossings Miscellaneous Trespassers on tracks			2		1	
Total		2	8		8	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	5
Number of persons injured during the year	3
Number resulting from lack of caution, carelessness, or misconduct	8
Trespassers and tramps killed or injured	Ž

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Shopmen Not classified above	1 1	2	8 1 1
Total	2	3	5

# STATE OF MICHIGAN, } 88.

Almon B. Atware, superintendent, and James H. Muir, secretary and treasurer, of the Detroit, Grand Haven & Milwaukee Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signe

A. B. ATWATER, Superintendent.
JAS. H. MUIR, Secretary and Treasurer.

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

[L. S.]

LAWRENCE F. LANG.

Notary Public, County of Wayne, State of Michigan.

### THREE MONTHS' REPORT

OF THE

# DETROIT, LANSING & NORTHERN RAILROAD COMPANY,

For the year ending March 81, 1896.

[Filed April 19, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary, CHARLES MERRIAM, Boston, Mass.
Auditor, U. B. BOGERS, Grand Rapids, Mich.
Treasurer, CHAS. MERRIAM, Boston, Mass.
General Manager, CHARLES M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, T. H. MALONE, Ionia, Mich.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.
Assistant Treasurer, JAMES E. HOWAED, Grand Rapids, Mich.
General Fassenger Agent, GEO. DBHAVEN, Grand Rapids, Mich.
Attorney, WM. ALDEN SMITH, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
H. H. HONNEWELL, Boston, Mass.
J. A. BURNHAM, Boston, Mass.
G. O. SHATTUCK, Boston, Mass.
C. HALES MERRIAM, Boston, Mass.
E. V. R. THATER, Boston, Mass.
A. H. HARDY, Boston, Mass.
GEORGE WHITNEY, Boston, Mass.
F. H. DAMON, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire second Wednesday in May, 1896.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 26, 1876.
Number of stockholders at date of last election: 471.
Number of stockholders in Michigan at same date: 2.
Amount of full paid stock held in Michigan at same date: \$10,600.
Date of annual meeting of stockholders: Second Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

GENERAL EXHIBIT.		
	Debit.	Credit.
Total earnings from operation	\$204,805 77	\$287,998 51
Net income		\$33,192 74
Interest on funded debt	56,885 00 806 43 33,668 44	
Balance for the three months	57,162 13	
Balance (profit and loss) last year.	151,907 61	
Balance forward to next year	\$209,069 74	
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association Par value of shares		
Total amount paid in, as per books of the company		4,885,600 00
Paid in per mile of road owned by company, 221.57 miles		19,567 63
ANALYSIS OF DEBT ACCOUNTS.		
FUNDED DEBT.		

. Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Detroit, Lansing & Northern R. R. Co., 1st mortgage bonds, 1877 Ionia & Lansing R. R. Co., 1st mortgage bonds, 1869	7% 5%	1907	Boston, Mass New York City	1
Total funded debt	•••••			\$3,412,000 00

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction	To be paid from earnings	\$1,164,474 60

# RECAPITULATION. .

Total funded debt	\$3,442,000 00 1,164,474 60
Total debt liabilities	\$4,606,474.60
Amount of debt habilities per mile of road, 221.57 miles	8,942,074 60
Stock and debt per mile of road, 221.57 miles	40,357 78

# GENERAL BALANCE SHEET.-DR.

GENERAL BALANCE SHEET.—Dr.		
Construction account Equipment account	\$7,044,966 96 716,042 97	
Construction account Equipment account Other investments (specifying same): Construction and equipment G. R., L. & D. R. R. Construction and equipment, S. & W. R. R.	1,303,636 27 568,586 65	, ;
		\$9,632,632 85
Cash items:	<b>698 98</b> 0 79	
Bills receivable	\$28,880 73 3,900 70	
Due from agents	11,675 06	44,456 49
0.1	·	22,200 20
Other assets: Materials and supplies	\$87,992 37	
Sinking funds Debit balances from companies and individuals	\$87,992 37 261,065 67 413,286 48	
Common stock scrip	413,286 48 71 00	
		762,415 52 209,069 74
Profit and loss		209,069 74
Total		\$10,648,574 60
GENERAL BALANCE SHEET.—Cr.		
Capital stock	\$4,885,600 00	
Capital stock G. R., L. & D. R. R.	28,000 00	,
Capital stock S & W. R. R.	4,500 00	
Capital stock Funded debt Capital stock G. R., L. & D. R. R. Capital stock S & W. B. R. Funded debt G. R., L. & D. R. R. Funded debt S. & W. R. R.	566,000 00	
		\$9,484,100 00
Unfunded debt:	es 014 101 67	
Interest unpaidVouchers and accounts	131,868 71	
Vouchers and accounts Other liabilities (list as follows:)	40,444,00	
Net traffic balances due other companies	18,414 22	1,164,474 60
m		*** *** *** **
Total		\$10,648,574 60
Total		\$10,648,574 60
COST OF ROAD AND EQUIPMENT.		\$10,648,574 <b>60</b>
COST OF ROAD AND EQUIPMENT.		
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built	it by compan	·y.
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built	it by compan	·y.
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built	it by compan	·y.
COST OF ROAD AND EQUIPMENT.	it by compan	·y.
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built	it by compan	·y.
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built	it by compan	·y.
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI	it by compan	·y.
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.	it by compan	·y.
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment	CHIGAN.	\$7,780,409 98 \$3,024 64 7,780,409 98
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.	it by compan	\$7,780,409 98 \$3,024 64 7,780,409 98
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment  Average cost per mile of road, not including sidings, 221.57 miles  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches:  Local fares  Through fares.	CHIGAN.  \$76,461 53 11,232 48	\$7,780,409 98 \$3,024 64 7,780,409 98
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment  Average cost per mile of road, not including sidings, 221.57 miles  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches:  Local fares  Through fares  Total passenger fares	CHIGAN.  \$76,461 58 11,232 48 \$87,694 01	\$7,760,409 98 \$3,024 64 7,760,409 98
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches:  Local fares  Through fares  Total passenger fares.  Express and baggage	CHIGAN.  \$76,461 58 11,232 48 \$87,694 01 5.580 00	\$7,760,409 93 33,024 64 7,760,409 93
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment  Average cost per mile of road, not including sidings, 221.57 miles  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches:  Local fares  Through fares  Total passenger fares  Express and baggage  Mails.	\$76,461 53 11,232 48 \$87,694 01 5,580 00 11,542 42	\$7,780,409 98 \$5,024 64 7,760,409 93
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches:  Local fares  Through fares  Total passenger fares.  Express and baggage	\$76,461 53 11,232 48 \$87,694 01 5,580 00 11,542 42	\$7,760,409 93 33,024 64 7,760,409 93
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches:  Local fares  Through fares  Total passenger fares.  Express and baggage  Mails.  Total passenger department earnings.  Per train mile	276,461 53 11,232 48 \$37,694 01 5,580 00 11,542 42	\$7,760,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares.  Through fares.  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.	276,461 53 11,232 48 \$37,694 01 5,580 00 11,542 42	\$7,760,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment. Average cost per mile of road, not including sidings, 221.57 miles. Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares. Through fares.  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.	276,461 53 11,232 48 \$37,694 01 5,580 00 11,542 42	\$7,760,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares.  Through fares.  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  FREIGHT EARNINGS.	276,461 53 11,232 48 \$87,694 01 1,542 42 \$9 78 314 08	\$7,760,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares.  Through fares.  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  FREIGHT EARNINGS.	276,461 53 11,232 48 \$87,694 01 1,542 42 \$9 78 314 08	\$7,760,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares.  Through fares.  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  FREIGHT EARNINGS.	276,461 53 11,232 48 \$87,694 01 1,542 42 \$9 78 314 08	\$7,760,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares.  Through fares.  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  FREIGHT EARNINGS.	376,461 53 11,232 48 887,694 01 5,590 00 11,542 42 105,181 17 24,532 97	\$7,780,409 98 \$3,024 64 7,760,409 98 
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment. Average cost per mile of road, not including sidings, 221.57 miles.  Proportion of cost for Michigan  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER EARNINGS.  Main line and branches: Local fares.  Through fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  FREIGHT EARNINGS.  Main line and branches: Local traffic.  Through traffic.	\$76,461 58 11,232 48 \$87,694 01 5,580 00 11,542 42 105,181 17 24,532 97 \$129,714 14	\$7,760,409 98 \$3,024 64 7,760,409 98 

Per train mile	
Per mile of road	
Total transportation earnings, entire line	\$234,530 57
Total transportation earnings, entire line	-
Miscellaneous receipts from operating account, other than for transporta-	
tion, as follows:	
From telegraph companies         1,381 87           From other sources         2,086 07	
	3,467 94
Total	\$237,998 51
	•
Total earnings from operation of road	237,998 51
Total earnings per train mile 97	
Total earnings per mile of road \$713 17 Total earnings per train mile 237,998 51 Proportion of taxable earnings for Michigan 237,998 51 Total taxable earnings per mile of road in Michigan 713 17	
Total income from all sources	
Total income from all sources	\$237,998 51
Proportion of income for Michigan	237,998 51
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$23,045 73
Renewals of rails	440 79 7,374 64
Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of telegraph.  Stationery and printing.	1,561 47
Repairs and renewals of fences, road crossings, signs and cattle guards	2,097 69 3,951 95
Repairs and renewals of telegraph.	385 87
Stationery and printing	87 24
Total	\$38,945 38
	====
MAINTENANCE OF EQUIPMENT.	
Superintendence	\$1,220 61
Renairs and renewals of locomotives	\$1,220 61 12,973 31 8,690 83
Renairs and renewals of locomotives	8,690 83 8,748 89
Renairs and renewals of locomotives	8, <b>690 83</b> 8,748 <b>89</b>
Repairs and renewals of locomotives.  Repairs and renewals of passenger cars.  Repairs and renewals of freight cars.  Repairs and renewals of work cars.  Repairs and renewals of shop machinery and tools.	8,690 83 8,748 89 250 31 1,223 28 77 38
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of bop machinery and tools	8,690 83 8,748 89 250 31 1,223 28
Repairs and renewals of locomotives.  Repairs and renewals of passenger cars.  Repairs and renewals of freight cars.  Repairs and renewals of work cars.  Repairs and renewals of shop machinery and tools.	8,690 83 8,748 89 250 31 1,223 28 77 38
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37
Repairs and renewals of locomotives Repairs and renewals of passenger cars. Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37 836,065 93
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37 836,065 93
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37 836,065 93
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37 836,065 93
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence	8,690 83 8,748 89 250 31 1,223 28 77 33 2,881 37 836,065 93
Repairs and renewals of locomotives Repairs and renewals of presenger cars. Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Pruel for locomotives Water supply for locomotives Other supplies for locomotives Train service. Train supplies and expenses.	8,690 83 8,748 89 250 31 1,223 28 77 38 2,881 37 836,065 98 83,486 75 18,648 22 24,324 94 1,313 88 796 47 222 01 12,663 54
Repairs and renewals of locomotives Repairs and renewals of presenger cars. Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Pruel for locomotives Water supply for locomotives Other supplies for locomotives Train service. Train supplies and expenses.	8,690 83 8,748 89 250 31 1,223 28 77 38 2,881 37 836,065 98 83,486 75 18,648 22 24,324 94 1,313 88 796 47 222 01 12,663 54
Repairs and renewals of locomotives Repairs and renewals of presenger cars. Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Pruel for locomotives Water supply for locomotives Other supplies for locomotives Train service. Train supplies and expenses.	\$3,486 75 18,648 82 24,324 94 1,313 88 796 47 222 01 12,663 54 3,105 78 5,888 43 18,784 64 1,725 00
Repairs and renewals of locomotives Repairs and renewals of presenger cars. Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Pruel for locomotives Water supply for locomotives Other supplies for locomotives Train service. Train supplies and expenses.	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 222 01 12,663 54 3,105 73 5,286 44 5,888 48 1,725 00
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Regine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train service Train service Switchmen, flagmen and watchmen Talegraph expenses Station service Station service Station service Car mileage—balance Car mileage—balance Loss and damage	\$3,486 75 18,648 22 24,324 94 1,313 84 1,313 84 1,313 85 1,316 35 1,316 35 1,316 35 1,317 222 01 12,663 54 3,105 73 5,226 44 5,588 43 18,784 68 1,725 00 721 91 1,184 69 403 77
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Regine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train service Train service Switchmen, flagmen and watchmen Talegraph expenses Station service Station service Station service Car mileage—balance Car mileage—balance Loss and damage	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 12,663 54 3,105 78 18,784 68 1,725 00 721 91 1,184 69 403 77 443 10
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train service Switchmen, flagmen and watchmen Talegraph expenses Station supplies Station supplies Switching charges—balance Car mileage—balance Loss and damage Injuries to persons Classing weeks	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 222 01 12,663 54 3,105 73 5,226 44 5,888 13,725 00 11,84 68 1,725 00 11,84 69 403 77 443 10 58 77 57 91
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Puel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station supplies Station supplies Station supplies Switching charges—balance Car mileage—balance Loss and damage Injuries to persons Clearing weeks Advertising Outside accentics	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 222 01 12,663 54 3,105 75 5,226 44 5,888 43 18,784 68 1,725 00 721 91 1,84 69 403 77 443 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10 5,874 10
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Puel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station supplies Station supplies Station supplies Switching charges—balance Car mileage—balance Loss and damage Injuries to persons Clearing weeks Advertising Outside accentics	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 12,663 54 3,105 78 5,226 44 5,838 43 18,784 68 1,725 00 721 91 1,184 69 1,184 69 1,184 69 1,184 69 1,2466 50 4 40 2,496 50 4 40 2,496 50 4 40 2,50
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train service Switchmen, flagmen and watchmen Talegraph expenses Station service. Station supplies Station supplies Switching charges—balance Car mileage—balance Loss and damage Injuries to persons Clearing wrecks Advertising Outside agencies Commissions Stockyards and elevators Rents for tracks, yards and terminals	\$3,486 75 18,648 22 24,324 94 1,313 88 1226 14 1,223 26 18,648 22 24,324 94 1,313 88 12,663 54 3,105 73 5,226 44 5,888 43 18,748 69 1,725 00 721 91 1,184 69 1,484 69 1,484 69 1,265 50 4 40 2 56,085 24
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives. Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service. Train service. Switchmen, flagmen and watchmen Telegraph expenses Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Car mileage—balance Loss and damage . Loss and damage . Loss and damage . Clearing wrecks Advertising . Outside agencies . Commissions . Stockyards and elevators . Rent of buildings and other property.	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 12,663 54 3,105 78 5,226 44 5,838 43 18,784 68 1,725 00 721 91 1,184 69 1,184 69 1,184 69 1,184 69 1,2466 50 4 40 2,496 50 4 40 2,496 50 4 40 2,50
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives Other supplies for locomotives Train service. Train service. Train service. Switchmen, flagmen and watchmen Telegraph expenses Switchmen, flagmen and watchmen Telegraph expenses Station service Station service Station service Station service Car mileage—balance Loes and damage Injuries to persons Clearing wrecks Advertising Outside agencies Commissions Stockyards and elevators Rents for tracks, yards and terminals Rent of buildings and other property. Stationery and printing	\$3,486 75 18,648 82 277 38 2,881 37  \$36,065 98  \$3,486 75 18,648 22 24,324 94 1,313 88 796 47 12,663 78 18,725 00 12,663 78 18,725 00 11,184 69 403 77 443 10 58 74 57 79 91 2,496 50 6,065 24 57 65 2,464 76
Repairs and renewals of locomotives Repairs and renewals of freight cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total  CONDUCTING TRANSFORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives. Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service. Train service. Switchmen, flagmen and watchmen Telegraph expenses Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Station service . Car mileage—balance Loss and damage . Loss and damage . Loss and damage . Clearing wrecks Advertising . Outside agencies . Commissions . Stockyards and elevators . Rent of buildings and other property.	\$3,486 75 18,648 22 24,324 94 1,313 88 796 47 1226 34 1,313 88 13,105 73 5,226 44 3,105 73 5,226 44 5,888 48 1,725 00 11,84 69 403 77 443 10 58 77 443 10 58 77 443 10 58 77 577 91 2,496 50 4 40 5 50 6,085 24 5 50 6,085 56

#### GENERAL EXPENSES.

Salaries of general officers Salaries of clerks and attendants		\$3,767 88 4,454 85
General office expenses and supplies		387 80
Insurance		865 90 2,054 04
Law expenses Stationery and printing (general offices)		549 25
Other expenses		259 19 6,788 79
Total		\$19,127 20
•		
RECAPITULATION OF EXPENSES.	Per cent of expenses.	
Maintenance of way and structures	19.02	\$38,945 38
Maintenance of equipment.	17.61	36,065 93
Conducting transportation	54.08 9.34	110,667 26 19,127 20
Total operating expenses and taxes.	100.00	\$204,805 77
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue,	613.70	
245,031 miles Proportion of operating expenses and taxes for Michigan	.84	204,805 77
•		
Total proportion of expenses for Michigan	•	\$204,805 77
Percentage of expenses to earnings.	86.03	
Net earnings per mile of road	99.47 .18	
Met carnings bot starn mito		
DESCRIPTION OF ROAD.		
DESCRIPTION OF ROLD.		
Date when the road was opened for use between its present termini:		
Date when the road was opened for use between its present termini: From Detroit to Howard City, August, 1871. From Stanton, Junction to Big Rapids, July, 1880.		
From Kiddville, to Belding, 1872.		
From Alma to Howard City, Angust, 1886.		
Trom imme to mo water crediting and room		
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.		
From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.		
From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888. MAIN LINE.	Wiles	Miles
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.	Miles.	Miles.
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.	156.60	Miles. 156.60
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.80	
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67	156.60
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	68.30 1.67	
In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company in Michigan	68.30 1.67	156.60 64.97
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	68.30 1.67	156.60 64.97 221.57 221.57
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	68.30 1.67	156.60 64.97 221.57
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.90 1.67 64.97	156.60 64.97 221.57 221.57
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.90 1.67 64.97	156.60 64.97 221.57 221.57 86.32
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.90 1.67 64.97	156.60 64.97 221.57 221.57 86.32
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67 64.97	156.60 64.97 221.57 221.57 86.32 307.89
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67  64.97  merated ed as single	156.60 64.97 221.57 221.57 86.32 307.89
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32 307.89
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67  64.97  merated ed as single	156.60 64.97 221.57 221.57 86.32 307.89
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32 307.89
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	68.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32 307.89
From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32 307.89
In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spure and other tracks not above ent Aggregate length in Michigan of sidings, spure and other tracks not above ent Aggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company  Name, description and length of each:  Detroit to Redford Junction (Union Station Association)  Lansing to North Lansing (J. L. & S. R. R.)  Alma to Howard City (S. & W. R. R.)  Oakdale Park to Reed's Lake (G. R. L. & D. R. R.)	68.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32 307.89

Number of bridges and trestles in Michigan.	<b>44</b> -
No. 1	Aggregate
	Length, feet. 385
Wooden bridges 4 Iron bridges 25	2,6971/4
Wooden trestles54	4,578
Total	7,660%
Crossings.—Railroad and highway.	
• • •	
What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Plymouth. Michigan Air Line R. R. at South Lyon. Ann Arbor R. R. at Howell Junction. Chicago & Grand Trunk R. R. at Trowbridge. Lowell & Hastings R. R. at Elmdale. Detroit, Grand Haven & Milwankee R. R. at Ionia. Toledo, Saginaw & Muskegon R. R. at Sheridan and Greenville. Grand Rapids & Indiana R. R. at Big Rapids and Grand Rapids. Michigan Central R. R. at Grand Rapids.	
At what crossings are interlocking and derailing switches in operation? Ann Arbor R. R. at Howell Junction. Chicago & Grand Trunk at Trowbridge. Lowell & Hastings at Elmdale. Toledo, Saginaw & Muskegon at Sheridan and Greenville. Michigan Central at Grand Rapids. Grand Rapids & Indiana at Grand Rapids. What pattern or patterns have you adopted? Gravitt and Union Switch and Signal Co.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings at which there are electric or automatic signals.  What pattern or patterns in use?	459 21 1
American Signal.  Number of crossings of highway over or under railroad: over 9, under 11	20
Number of highway bridges 18 feet above track	9
Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.	
How are they treated?  Hart guards and blocked with plank.	
Stations.	
Number of stations on whole Hose	90
Number of stations on whole lines Same in Michigan	80 80 •
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	1,146
Same in Michigan	1,142
Classify your employés as per following list:	Number.
Baggagemen	9
Brakemen	59 27
Conductors	45
Firemen	47
LaborersShopmen	447 86
Yardmen	82
Others	394
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	646
Road bed and track.	
Number of track sections in Michigan.	65
Average lengths of sections, miles.	550
Average lengths of sections, miles Average number of men in each section gang Number of new ties put in whole line during the three months Number of new ties put in track in Michigan Average number of new ties per mile of road.	2,552 2,552 2,552 71/2

#### ROLLING STOCK.

ROLLING STOCK.		
	Number.	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		20,000 00
Total	. 4	\$143,500 00
Number of passenger cars—12-wheel, including official cars. Number of passenger cars—8-wheel, including official cars. Number of express and baggage cars. Number of box freight cars. Number of stock cars. Number of platform cars. Number of platform cars. Number of conductors' way cars.	_ 44 _ 1' _ 500 _ 45	120,000 00 7 25,500 00 5 126,250 00 8 10,750 00 113,030 00
Other cars as follows: Tool	1 1 1 1 1 1 1 2 2 2	1 2,400 00
Total	1,29	\$549,150 00
Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  Number of freight cars equipped with power brakes.  What patterns of power brakes have you in use, and number of locomotives and each?	cars with	44 66 13
Locomotives, Westinghouse Locomotives, New York		. 34
Locomotives, Steam Locomotives, Vacuum Freight cars, Westinghouse Passenger cars, Westinghouse		1 13

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

What pattern or patterns have you adopted for use? Gould automatic coupler.

 How are your passenger cars heated. Steam.

# MILEAGE TRAFFIC, ETC.

Train mileage.		
•	Entire lines. In	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year. Miles run by mixed trains Total mileage of trains earning revenue.	. 111,168 12,318	138,888 111,168 12,318 245,051
Passenger traffic.—Road all in State of Michigan.		
Numbers	. Miles.	Rate.
Number of through passengers carried, earning revenue 4,45 Number of local passengers carried earning revenue 113,26		
Total number of passengers carried, earning revenue 117,72	8	
Number of passengers carried one mile	80.317	\$0 74.489 02.625 02.434
Average receipts per passenger per mile for all passengers		02.457

# Freight traffic.—Road all in State of Michigan.

Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	<u></u>	Miles.	Rate.
Total tons of freight carried, earning revenue.  Total mileage of through freight. Total freight mileage or tons carried one mile. Average ton haul for through freight. Average ton haul for local freight. Average ton haul for local freight. Average amount received for each ton haul. Average receipts ton per mile, for through freight. Average receipts ton per mile, for local freight. Average receipts ton per mile, for all freight.		2,738,301 8,318,366 11,056,667 154,123 69,871 80,308	\$0 94.215 00.896 01.264 01.173
Water the teneral of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state			

# FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

# . Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road.		Whole tons.	Per cent.
Products of agriculture:				
Grain	8,197	1,101	4,298 4,628	3.12
Flour Other mill products	3,032 387	1,591 442	4,628 829	3.36
Other mill products	301 395	664	1.059	.60 .77
Hay Fruit and vegetables.	12,041	352	12,393	9.00
Products of animals:		1	1	
Live stock	3,790	540	4,330	3.14
Dressed meats	284	62	326	.24
Other packing house products	224 58	15	289 62	.17 .05
Poultry, game and fish	22	10	32	.02
Wool Hides and leather	390	283	678	.49
Products of mines:				
Anthracite coal	41	4,775	4.816	3.50
Bituminous coal. Stone, sand, and other like articles	35	10,840	10,375	7.54
Salt.	120 19	80 1,723	1,742	1.27 1.27
Products of forest:				
Lumber Charcoal	51,299	10,507	61,806	44.89
Charcoal	•"	101	148	.11
Manufactures: Petroleum and other oils	857	582	1,439	1.05
Iron, pig and bloom		330	330	.24
Iron and steel rails	39	23	62	.05
Other castings and machinery	1 640	697	1,837	.97
Bar and sheet metals	80		30	.02
Cement, brick and lime	606	566	1,172	.85
Agricultural implements	489 366	381 90	870 456	.63
Wagons, carriages, tools, etc		183	845	.33 .25
Household goods and furniture		2,410	6,971	5.06
Merchandise	5,883	2,863	8,248	5.99
Miscellaneous: Other commodities not mentioned above	7,722	748	8,470	6.15
Total tonnage	96,716	40,963	137,679	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office

of such express companies?

The American Express Co. at an agreed rate. They handle their own freight at the railroad company's depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 673.38 miles. Detroit, Lansing & Northern R. R. Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE THREE MONTHS ENDING MARCH 81.

#### KILLED.

March 13, E. Ryder, conductor, Belding. Fell between cars; accidental.

#### INJURED.

March 13, James Bartlett, brakeman, Grand Rapids. Collision; mistook signal G. R. & I. track.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Common of antidant	Killed.			Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
CollisionsFalling from trains		i			1	
Total		1			1	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the three months
--------------------------------------------------

# CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Conductors.	i	1	1 1
Total	1	1	2

STATE OF MICHIGAN, } ss.

Charles M. Heald, general manager, and U. B. Bogers, auditor, of the Detroit, Lansing & Northern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

CHAS. M. HEALD,

U. B. ROGERS.

Subscribed and sworn to before me this 17th day of April, A. D. 1897.

ERNEST N. WELLER, Notary Public, Kent County, Michigan.

#### NINE MONTHS' REPORT

#### OF THE

#### RECEIVER OF

# DETROIT, LANSING & NORTHERN RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed April 19, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

Auditor, U. B. ROGERS, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, T. H. MALONE, Ionia, Mich.
Chief Engineer, J. J. MOVEAN, Grand Rapids, Mich.
Cashier, JAS. E. HOWARD, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, WM. ALDEN SMITH, Grand Rapids, Mich.
Receiver, CHARLES M. HEALD, Grand Rapids, Mich.

## DIRECTORS.

See D., L. & N. R. R. Co. report for three month's ending March 31, 1896. See S. V. & St. L. R. R. Co. report for three month's ending March 31, 1896.

#### REMARKS:

See D., L. & N. R. R. Co. report for three month's ending March 31, 1896. See S. V. & St. L. R. R. Co. report for three month's ending March 31, 1896.

	GENERAL EXHIBIT.		
	•	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$785,774 40	<b>\$927</b> ,786 45
Net income			\$142,012 05
Interest on unfunded debt		\$2,274 55 88,221 65	
Balance for the nine months			106,064 95
	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liquid	ated?	Amount.
For miscellaneous			\$41,096 08

# RECAPITULATION.

ABORI I UDATION.		
Total unfunded debt		\$41,096 08
Total debt liabilities		\$41,096 08
Amount of debt liabilities per mile of road, 358.78 miles		114 54
GENERAL BALANCE SHEETDr.		
Construction eccount		
D. L. & N. R. R. \$7,044,866 96 G. R., L. & D. R. R. 1,258,640 00 S. & W. R. R. 558,966 65 S. V. & St. L. R. R. 603,016 16		
8. & W. R. R		
8. V. & St. L. R. R		
Equipment account:	\$9,465,009 77	
G. B., L. & D. R. R		
D., L. & N. R. R. \$716,042 97 G. R., L. & D. R. R. 44,996 27 S. & W. R. R. 9,600 00 S. V. & St. L. R. R. 87,037 00		
	857,676 24	HO 880 600 01
Cash items:		10,822,686 01
Cash Due from agents	\$151,572 07 799 87	
		152,871 44
Other assets:  Materials and supplies  Debit balances from companies and individuals	\$24,027 17	
Debit balances from companies and individuals	10,144 49	34,171 66
Total		
10181		=======================================
CHAIRDAY DAYAMON OTTOM	•	
GENERAL BALANCE SHEET.—Cr.	•	
C. M. Heald, receiver	.,	10,362,068 08
C. M. Heald, receiver.  Amount of balances brought forward from D. L. & N. and S. V. & St. L. R. R. Unfunded debt:	books.	
Vouchers and accounts Profit and loss or income accounts.		41,096 08 106,064 95
		<u> </u>
Total.		10,509,229 11
•		
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MI	CHIGAN.	
PASSENGER EARNINGS.  Main line and branches:		
Local fares	\$45,024 79 838,078 24	
Through fares		
Total passenger fares	<b>\$378,098 03</b>	
Express and baggage	18,000 00	
Mails	39,832 12	
Total passenger department earnings		\$435,980 15
Per train mile	\$0.83	
Per mile of road	1,150 76	
FREIGHT EARNINGS.		
Main line and branches:	enno 400 FF	
Local traffic Through traffic	\$388,463 57 92,499 01	
Total traffic	\$480,982 58	
		100 000 70
Total freight department earnings		480,962 58
Per train mile Per mile Per mile of road	\$1 27 1,269 63	
	-,	
Total transportation earnings, entire lines.  Transportation earnings per mile of road.  Transportation earnings per train mile	\$2,420 89	\$916,892 78
Transportation earnings per train mile	1 02	

Miscellaneous receipts from operating account, other than for transportation, as follows:  From telegraph companies	
*10m 0mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1	\$10,898 72
Total	\$927,786 45
Total earnings from operation of road  Total earnings per mile of road  Total earnings per train mile  Total earnings per train mile  Total earnings per train mile  Total taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings	\$927,786 45
	927,786 45 2,449 15 2,274 55
Total income from ali sources	\$930,061 00
Proportion of income for Michigan	980,061 00
analysis of expenses.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$85,078 49
	85 140 52
Renewals of tails  Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of ences, road crossings, signs and cattle guards  Repairs and renewals of buildings and fixtures  Repairs and renewals of telegraph  Stationary and synthing	66,652 48 2,994 12 5,654 59
Repairs and renewals of bridges and culverts	2,994 12
Repairs and renewals of fences, road crossings, signs and cattle guards.	5,654 59 16,824 44
Repairs and renewals of buildings and fixtures.	5,897 68
Stationery and printing	61 03
Other expenses.	271 37
Total	\$218,574 72
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewal of freight cars Repairs and renewals of work cars. Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	\$4,472 01 42,398 15 19,786 04 31,170 11 757 48 4,369 42 335 72 6,216 51
Total	\$109,505 44
CONDUCTING TRANSPORTATION.	
0	910 EEA 05
Superintendence	\$13,550 95 69,039 77 75,924 14
Final for locomotives	75,924 14
Fuel for locomotives.  Water supply for locomotives Oil, tallow and waste for locomotives. Other supplies for locomotives.	4.802 61
Oil, tallow and waste for locomotives	2.563 36
Other supplies for locomotives	
Train service. Train supplies and expenses Switchmen, flagmen and watchmen. Telegraph expenses	43,359 50 11,168 17 15,972 75 18,789 85 67,081 31
1 rain supplies and expenses	15 972 75
Telegraph expenses	18,789 85
Station service	67,081 31
Station supplies Switching charges—balance	
Switching charges—balance	2,668 51
Car mileage—balance. Loss and damage	2,668 51 5,134 13 1,845 36
Loss and damage	1,010 00 2 677 ∩Ω
Clearing wracks	2,677 08 383 30
Clearing wrecks Advertising	4 482 57
Onteida aconcias	10,177 95
Commissions	25 52
Hents for tracks, yards and terminals.	31,986 09 873 78
Commissions Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing	9,577 36
Total	\$397,849 11

# GENERAL EXPENSES.

CHARLE BALLAGES.		
Salaries of general officers . Salaries of clerks and attendants General office expenses and supplies		\$10,424 98
Salaries of clerks and attendants		16,418 78
Insurance		1,489 07
Law axpenses.		1,489 07 2,804 03 4,199 81
Law expenses. Stationery and printing (general offices). Other expenses.		916 23
Other expenses		4,312 01 19,835 27
Total		\$60,845 18
	•	
DWOADIWITI AMION OF WYDDWOM		
RECAPITULATION OF EXPENSES.		
	Per cent of expenses.	
Maintenance of way and structures	27.82	\$218,574 72
Maintenance of equipment	13.93	109,505 44
Conducting transportation	50.57	397,349 11
General expenses, including taxes.	7.68	60,345 18
Total operating expenses and taxes	100.00	\$785,774 40
Operating expenses and taxes per mile of road	\$2,074.27	
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains earning revenue,		
902,257 miles. Proportion of operating expenses and taxes for Michigan.	.87	ATOK 554 40
r repersion of operating expenses and taxes for Michigan		\$785,774 40
Percentage of expenses to earnings	84.69	
Net earnings per mile of road	374.88	
Net earnings per train mile	. 16	
DESCRIPTION OF ROAD.		
MAIN LINE.	Miles.	Miles.
In Michigan, from West Detroit to Howard City	156.60	miles.
Total length completed		156. <b>6</b> 0
BRANCHES.		
From Stanton Junction to Big Rapids	63.30	
From Stanton Junction to Big Rapids From Belding to Kiddville	1.67	
From Belding to Kiddville	1.67	
From Belding to Kiddville. From Alma to Howard City From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake.	1.67 42.57 58.01	
From Belding to Kiddville	1.67 42.57 58.01 2.53 28.60	
From Belding to Kiddville From Alma to Howard City From Oakdale Park to Reed's Lake From Paines to St. Louis From Alma to Ithaca	1.67 42.57 58.01 2.53 28.60 6.90	
From Belding to Kiddville	1.67 42.57 58.01 2.53 28.60 6.90	
From Belding to Kiddville From Alma to Howard City From Oakdale Park to Reed's Lake From Paines to St. Louis From Alma to Ithaca	1.67 42.57 53.01 2.53 28.60 6.90 3.60	202.18
From Belding to Kiddville.  From Alma to Howard City.  From Grand Ledge to Grand Rapids.  From Oakdale Park to Reed's Lake.  From Paines to St. Louis  From Alma to Ithaca.  From St. Louis to Alma.  Total length of branches owned by company.	1.67 42.57 58.01 2.53 225.60 6.90 3.60	
From Belding to Kiddville.  From Alma to Howard City.  From Grand Ledge to Grand Rapids.  From Oakdale Park to Reed's Lake.  From Paines to St. Louis  From Alma to Ithaca.  From St. Louis to Alma.  Total length of branches owned by company.	1.67 42.57 58.01 2.53 225.60 6.90 3.60	
From Belding to Kiddville From Alma to Howard City From Grand Ledge to Grand Rapids From Oakdale Park to Reed's Lake From Paines to St. Louis From Alma to Ithaca From St. Louis to Alma  Total length of branches owned by company  Total length of road belonging to this company Aggregate length in Michigan of sidings, spurs, and other tracks not above entered to the spurse of the spurse of the spurse	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sidings, spurs, and other tracks not above em	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05
From Belding to Kiddville.  From Alma to Howard City.  From Grand Ledge to Grand Rapids.  From Oakdale Park to Reed's Lake.  From Paines to St. Louis  From Alma to Ithaca.  From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computerack.	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sidings, spurs, and other tracks not above em	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05
From Belding to Kiddville.  From Alma to Howard City	1.67 42.57 53.01 2.53 28.60 6.90 3.60	358.78 112.05
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From Alma to Ithaca.  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.	1.67 42.57 53.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From Alma to Ithaca.  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05
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From Belding to Kiddville. From Alma to Howard City From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake From Paines to St. Louis From Alma to Ithaca From Alma to Ithaca Total length of branches owned by company  Total length of road belonging to this company Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computrack  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From Alma to Ithaca.  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83
From Belding to Kiddville.  From Alma to Howard City.  From Grand Ledge to Grand Rapids.  From Oakdale Park to Reed's Lake.  From Paines to St. Louis  From Alma to Ithaca.  From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above entered track.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.  Name, description and length of each:  Detroit to Redford Junction (Union Station Association).  Lansing to North Lansing (J., L. & S. R'y).	1.67 42.57 53.01 2.53 28.60 6.90 3.60 2.53 28.60 6.90 3.60 1.00 13.04 1.00 6.00	358.78 112.05 470.83 In Michigan.
From Belding to Kiddville.  From Alma to Howard City.  From Grand Ledge to Grand Rapids.  From Oakdale Park to Reed's Lake.  From Paines to St. Louis  From Alma to Ithaca.  From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.  Name, description and length of each: Detroit to Redford Junction (Union Station Association)  Lansing to North Lansing (J., L. & S. R'y).  East Saginaw to Paines (J., L. & S. R'y).	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan.
From Belding to Kiddville.  From Alma to Howard City.  From Grand Ledge to Grand Rapids.  From Oakdale Park to Reed's Lake.  From Paines to St. Louis  From Alma to Ithaca.  From Alma to Ithaca.  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above entered track.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.  Name, description and length of each:  Detroit to Redford Junction (Union Station Association).  Lansing to North Lansing (J., L. & S. R'y).  East Saginaw to Paines (J., L. & S. R'y).	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan.
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From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sidings, spurs, and other tracks not above entaggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lansing (J., L. & S. R'y).  East Saginaw to Paines (J., L. & S. R'y).	1.67 42.57 42.57 53.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan. 20.04 378.82
From Belding to Kiddville. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company. Aggregate length in Michigan of sldings, spurs, and other tracks not above ent Aggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company.  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lansing (J., L. & S. R'y).  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.	1.67 42.57 42.57 53.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan.
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above em  Aggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lansing (J., L. & S. R'y).  East Saginaw to Paines (J., L. & S. R'y)  Total.  Total miles operated by the company  Number of bridges and tresties in Michigan.  Wooden bridges	1.67 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan. 20.04 378.82 Aggregate length, feet.
From Belding to Kiddville. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spura, and other tracks not above em  Aggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lausing (J., L. & S. R'y)  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Lron bridges.	1.67 42.57 42.57 58.01 2.58 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan. 20.04 378.82 Aggregate length, feet. 458 2.7071/4
From Belding to Kiddville. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above em  Aggregate length of tracks in Michigan belonging to this company, computerack.  Proprietary or leased roads operated by this company.  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lansing (J., L. & S. R'y)  Total  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Wooden bridges.  Iron bridges.  Wooden trestles	1.67 42.57 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan. 20.04 378.82 Aggregate length, feet. 458 2,707.4 5,219
From Belding to Kiddville. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca. From St. Louis to Alma.  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spura, and other tracks not above em  Aggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lausing (J., L. & S. R'y)  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Lron bridges.	1.67 42.57 42.57 58.01 2.58 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan. 20.04 378.82 Aggregate length, feet. 458 2.7071/4
From Belding to Kiddville. From Alma to Howard City. From Grand Ledge to Grand Rapids. From Oakdale Park to Reed's Lake. From Paines to St. Louis From Alma to Ithaca From St. Louis to Alma  Total length of branches owned by company.  Total length of road belonging to this company.  Aggregate length in Michigan of sidings, spurs, and other tracks not above em  Aggregate length of tracks in Michigan belonging to this company, computerack.  Proprietary or leased roads operated by this company.  Name, description and length of each: Detroit to Redford Junction (Union Station Association) Lansing to North Lansing (J., L. & S. R'y)  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Wooden bridges.  Iron bridges.  Wooden trestles.	1.67 42.57 42.57 58.01 2.53 28.60 6.90 3.60	358.78 112.05 470.83 In Michigan. 20.04 378.82 Aggregate length, feet. 458 2,707.4 5,219

# Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette B. R. at Plymouth. Michigan Air Line B. R. at South Lyon. Ann Arbor R. R. at Howell Junction and St. Louis. Chicago & Grand Trunk R. R. at Trowbridge. Lowell & Hastings B. R. at Elimdale. Detroit, Grand Haven & Miwaukee R. R. at Ionia. Tolsdo, Saginaw and Muskegon R. B. at Sheridan and Greenville. Grand Rapids & Indiana R. R. at Big Rapids and Grand Rapids. Michigan Central R. R. at Grand Rapids.	
At what crossings are interlocking and derailing switches in operation? Ann Arbor R. R. at Howell Junction. Chicaso & Grand Trunk R. R. at Trowbridge. Lowell and Hastings R. R. at Elmdale. Toledo, Saginaw and Muskegon R. R. at Shridan and Greenville. Michigan Central R. R. at Grand Rapids. Grand Rapids and Indiana R. R. at Grand Rapids.	
What pattern or patterns have you adopted? Gravitt and Union Switch & Signal Co.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	505 21
Number of crossings at which there are electric or automatic signals	1
American Signal Co.	
Number of crossings of highways over or under railroad: Over 9, under 11.	
Number of highway bridges 18 feet above track: Nine.	
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Yes.	
How are they treated?  Hart guards and blocked with plank.	
Stations.	
Stations.  Number of stations on whole lines.  Same in Michigan	80
Number of stations on whole lines.	
Number of stations on whole lines.  Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials	1,112
Number of stations on whole lines.  Same in Michigan  Employés.	<del></del>
Number of stations on whole lines.  Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen.  Brakemen.  Conductors.  Engineers	1,112 1,108 Number.
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemeu	1,112 1,108 Number.
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemeu  Laborers  Shopmen	1,112 1,108 Number.
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemeu  Laborers	1,112 1,108
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemeu  Laborers  Shopmen	1,112 1,108 Number. 9 54 47 46 424 87 29
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemeu  Laborers  Shopmen  Yardmen  Others  REPAIRS AND RENEWALS.  Fencing in Michigan.	1, 112 1, 108 Number. 9 54 27 47 46 424 87 29 389
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen  Conductors Engineers Firemeu Laborere Shopmen Yardmen Others  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?	1,112 1,108 Number. 9 54 47 46 424 87 29
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen  Conductors Engineers Firemeu Laborere Shopmen Yardmen Others  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.	1,112 1,108 Number. 9 54 27 46 424 87 29 389
Number of stations on whole lines.  Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen. Conductors. Engineers. Firemen. Laborers. Shopmen. Yardmen. Others.  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.	1,112 1,108 Number. 9 47 47 46 424 42 29 389
Number of stations on whole lines.  Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen. Conductors. Engineers. Firemeu. Laborers. Shopmen. Yardmen. Others.  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles).  5.50	1,112 1,108 Number. 94 277 46 424 424 427 299 389
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemen  Laborers  Shopmen  Yardmen  Others  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles)  Average number of men in each section gang  Number of new ties put in whole line during the nine months  Number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties per mile of road  New rails put in track:	1, 112 1, 108 Number. 9 54 27 47 46 424 87 29 389
Number of stations on whole lines.  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen  Conductors Engineers Firemeu  Laborere Shopmen  Yardmen  Others  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles)  Average number of men in each section gang Number of new ties put in whole line during the nine months Number of new ties put in track in Michigan.	1,112 1,108 Number. 9 54 47 46 424 87 299 389 724.14

Bridges and culverts.  Timber culverts replaced during the nine months				
Location.	Kind.	Material.	Month built.	Feet in length.
Three miles east of Grand Rapids. One mile east of Eagle. Ithaca, branch. Ithaca, branch.	Pile trestle	Wood Iron and wood Wood	August June June September .	42 10 12 12
Number of locomotives of more the Number of locomotives of 20 to 30 to Number of locomotives of 10 to 20 to	ROLLING STOCK an 30 tons weight, exclusions weight, exclusive of cons weight, exclusive of	ive of tender	Number. m	resent esti- ated value. \$122,500 00 27,500 00 1,000 00
Total  Number of passenger cars—12-wheel Number of passenger cars—8-wheel				\$151,000 00 \$2,500 00 125,000 00
Number of passenger cars—o-wind Number of express and baggage of Number of box freight cars	AT8		18 514 43	27,000 00 128,500 00 10,750 00 120,030 00 5,600 00
Other cars as follows: Tool			1 1 1 1 1 1 1 1 2 2	2,650 00
Total	•••••			\$578,050 00
Number of locomotives equipped v Number of passenger-train cars eq Number of freight cars equipped v	uipped with power brake	9 <b>6</b>	69	
What patterns of power brakes ha cars with each?  Locomotives, Westinghouse				
Locomotives, Westinghouse Locomotives, New York Locomotives, Steam Locomotives, Vacuum Freight cars, Westinghouse Passenger cars, Westinghouse			4 1 18	

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould automatic.

How are your passenger cars heated. Steam.

# MILEAGE TRAFFIC, ETC.

#### Train mileage.

Miles run by passenger trains during the year			Entire lines. 522,825 379,482 62,989 902,257
Passenger traffic.—Road all in State of	<del>-</del> '	201	<b>.</b> .
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	Numbers. 15,150 588,004	Miles.	Rate.
Total number of passengers carried earning revenue	548,154		
Number of passengers carried one mile	18,592,754	33.919	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			02.030
Freight traffic.—Road all in State of 1	lichigan.		
Number of tons of through freight carried, earning revenue	Tons. 69,074 877,582	Miles.	Rate.
Total tons of freight carried, earning revenue	446,606	•	
Total mileage of through freight	10,2 81,3 41,6	94,398 169,190 363,588	
Average ton haul for through freight  Average ton haul for local freight  Average ton haul for all freight  Average amount received for each ton haul  Average receipts ton per mile for through freight  Average receipts ton per mile for local freight  Average receipts ton per mile for all freight			\$1 07.693 00.899 01.288

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

Company's material excluded.

Commodity.	Freight ceived fro		100011101311010		
Commounty.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
roducts of agriculture:					
Grain	25,970	2,680	28,650	6.41	
Flour Other mill products	12,009	6,572	18,581	4.16	
Other mill products	3,074	932	4,006	.90	
Hay Fruit and vegetables	9,935 31,268	3,680 10,443	18,615 41,711	3.05 9.34	
Fruit and vegetables	31,200	10,443	41,/11	8.31	
roducts of animals:	10 500	9 707	15,238	8.41	
Live stock	12,533 423	2,703	432	.10	
Dressed meats Other packing house products Poultry, game and fish	197		197	.08	
Ponitry came and find	368	46	414	.03	
Wool	439	83	522	.12	
Wool	1,228	887	2,115	.47	
roducts of mines:					
Anthracite coal		17,949	17,949	4.02	
Bituminous coal	370	32,252	32,622	7.30	
		245	317	.07	
Charcoal	2,786	373	3.159	.71	
Salt	6,999	129	7,128	1.60	
roducts of forest:					
Lumber	139,729	27,109	166,838	37.86	
[anufactures:				•	
Petroleum and other oils		1,442	4,358	.98	
Iron, pig and bloom	19	179	198	.0	
Iron and steel rails.	362		362	.00	
Other castings and machinery	2,823	3,116	5,939	1.8	
Bar and sheet metal	. 88	60	148	.03	
Coment, brick and lime	5,919	3,700	9,619	2.10	
Agricultural implements	1,442	1,290	2,732	.61 .39	
Wagons, carriages, tools, etc.	1,649	114	1,763		
Wines, liquors and beers. Household goods and furniture.	1,229 10,121	730 6,689	1,959 16,810	.44 3.76	
	l	'	10,010	0.10	
lerchandise	23,579	6,065	29,644	6.64	
liscellaneous:					
Other commodities not mentioned above	16,532	3,048	19,580	4.38	
Total tonnage.	314,079	132,527	446,606	100.00	

#### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. at an agreed rate. They handle their own freight at the railroad company's depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

673.38. D., L. & N. R. R. 32.19. Western Union Telegraph Co.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE NINE MONTHS ENDING DECEMBER 31, 1896.

#### KILLED.

April 17, Oliver Warner, citizen, McCords, Team frightened at cars and ran over deceased; accidental. May 26, James Wills, citizen, Plymouth. Train frightened horse; accidental. June 27, Charles Lasber, citizen, Redford. Trespassers on track; struck by F. & P. M. train. September 5, Ed. Ross, brakeman, Portland. Crushed between cars; accidental. September 16, Frank Frost, engineer, Fowlerville. Collision; crew asleep; neglected orders. October 27, Robert Patterson, citizen, Ionia. Trespasser; struck by hand car. December 1, Alice Tatt, F. May Luce, citizens, Lyons. Struck at crossing; accidental. December 10, J. W. Younger, citizen, Portland. Fell from train; accidental.

#### INJURED.

April 10, Charles Williams, citizen, Sunfield. Climbing between cars; trespasser.

June 17, Mrs. S. Welch, citizen, Lakeview. Struck at crossing; accidental.

July 16, John E. Bourn, brakeman, Howard City. Alighting from moving train.

September 16, H. Bailey, engineer, F. H. Williams, Fireman, A. V. Broderick, brakeman, Fowlerville.

Collision; crew asleep; neglected orders.

September 14, Patrick Kennedy, fireman, Okemos. Collision; mistaking written order.

October 15, E. S. Wright, citizen, Elmdale. Foot hurt between bumpers while cars were being coupled.

November 21, Frank Lett, citizen, Grand Rapids. Stealing ride on train; fell off; tresspasser.

December 1, Anna Taft, citizen, Lyons. Struck at crossing; accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Collisions Falling from trains Getting on and off trains.	i	1			4	
Highway crossings		1	2 2	1		
Total		2	6		5	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the nine months.  Number of persons injured during the nine months.  Number of casualties purely accidental.  Number resulting from lack of caution, carelessness or misconduct.  Trespassers and tramps killed or injured.	10 10

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Ragineers Firemen	1 1	2 1 2	3 2 2
Total	2	5	7

STATE OF MICHIGAN, SS. COUNTY OF KENT,

Charles M. Heald, receiver, and U. B. Bogers, auditor, of the Detroit, Lansing & Northern railroad company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. of R. R.]

Signed,

CHAS. M. HEALD, U. B. ROGERS.

Subscribed and sworn to before me this 17th day of April, A. D. 1897.

ERNEST N. WELLER, Notary Public, Kent Co., Michigan.

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#### THREE MONTHS' REPORT

#### OF THE

# GRAND RAPIDS, LANSING & DETROIT RAILROAD COMPANY,

For the three months ending March 31, 1896.

[Filed April 19, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass. Secretary, CHARLES MERRIAM, Boston, Mass. Treasurer, CHARLES MEBRIAM, Boston, Mass. General Manager, CHAS. M. HEALD, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYEE, Boston, Mass. CHARLES MERRIAM, Boston, Mass. GRO. SHATTUCK, Boston, Mass. A. H. HARDY, Boston, Mass. H. H. HUNNEWELL, Boston, Mass. F. H. DAMON, Boston, Mass. CHAS. M. HEALD, Grand Rapids, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 17, 1887.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 1.

Amount of full paid stock held in Michigan at same date: \$100 00.

Date of annual meeting of stockholders: Second Wednesday in May.

Fiscal year of company ends December 31.

General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

### REMARKS:

This road is leased and operated by the Detroit, Lansing & Northern R. R. Co.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.  Par value of shares. \$100.00  Average price received per share 100.00		\$450,000 00
Amount paid in on common	\$28,000 00	28.000 00
Paid in per mile of road owned by company, 55.54 miles		

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date of	issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage bonds, Sep. 1, 1887		5≴	Sep. 1, 1927	Boston, Mass	\$1,108,000 00
	1	unfund <b>e</b> d	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	w liquidated.	Amount.
For construction	} To be	paid			\$167,636 27
	1	ECAPITUL.	ATION.		1 2 1 1
Total funded debt Total unfunded debt		· · · · · · · · · · · · · · · · · · ·			\$1,108,000 00 167,636 27
Total debt liabilities		•••••			\$1,275,636 27
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road	e of road,	55.54 mile	•		22,967 88 1,803,636 27 23,472 02
	INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due was it paid for the last year? No If interest is in default state the Default 1898. Default 1894. Default 1895. Default 1896.	o. years and	amounts a	s follows:		27,700 00
_			D EQUIPMENT.		
TOTAL COST FOR CONSTRUCT			OF ROAD AND BRA		
Total expended for construction of Average cost of construction per proportion of cost of construction	mile of ros	id (not inc	luding sidings) 55	.04 ID1108	\$1,803,636 27 23,472 02 1,303,636 27
	DESC	RIPTION	OF ROAD.		
Date when the road was opened for	or use bet	_		ugust, 1888.	
Toursk completed to Mickinson C	7	MAIN LI			
Length completed in Michigan, G Total length completed					_
		BRANCE	ES.		
Reed's Lake, from Oakdale Park	to Reed's	Lake		2.5	3
Total length of branches owner	ed by com	pany			2.53
Total length of branches owned b	y company	y in Michia	gan	2.5	8
Total length of road belonging	to this c	отраву			_ 55.54
Total length of road belonging to Aggregate length of sidings, spurs	this comp	any in Mie	chigan	ted	4 . 10.77
Same in Michigan			or accide enumera	10.7	7
Aggregate length of tracks in Mictrack	chigan ba	longing to		omputed as single	7 9 66.31

STATE OF MASSACHUSETTS, SS. COUNTY OF SUFFOLK,

Nathaniel Thayer, president, and Charles Merriam, secretary, of the Grand Rapids, Lansing & Detroit Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock and debt and other matters therein contained of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

N. THAYER, President, CHAS. MERRIAM, Secretary.

Subscribed and sworn to before me this 15th day of April, A. D. 1897.

F. H. DAMON, Notary Public.

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# THREE MONTHS' REPORT

#### OF THE

# SAGINAW & WESTERN RAILROAD COMPANY

For the three months ending March \$1, 1996.

[Filed April 24, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass. Secretary, JAMES E. HOWARD, Grand Rapids, Mich. Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
E. V. B. THAYER, Boston, Mass.
CHAS. F. ADAMS, Boston, Mass.
CHAS. MERRIAM, Boston, Mass.
GBO. O. SHATTUOK, Boston, Mass.
A. H. HARDY, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
J. A. BURNHAM, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire July 8, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 7, 1883. Number of stockholders at date of last election: 9. Number of stockholders in Michigan at same date, 1. Amount of full paid stock held in Michigan at same date: \$100.00. Date of annual meeting of stockholders: Second Wednesday in July. Fiscal year of company ends: December 31. General offices of the company are located at Grand Rapids, Mich.

#### REMARKS.

This road is leased for thirty years from July 1, 1883, to the Detroit, Lansing and Northern Railroad Company, that company paying the interest on the bonds and a dividend of seven (7) per cent per annum on the stock of this company as rental.

# ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$675,000 00
Par value of shares  Average price received per share.  Number of shares issued	\$100 00 100 00
Number of shares issued 45 Amount paid in on common	<b>\$4,500 00</b>
Total amount paid in, as per books of the company	\$4,500 00
Paid in per mile of road owned by company, 42.57 miles	105 71

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

	FUNDAD I			
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage bonds, 1883	6%	1913	Boston, Mass	\$566,000 00
	RECAPITUL			
Total funded debt Total debt_liabilities				. \$566,000 00 566,000 00
Amount of debt liabilities per mile of road,	, 42.57 miles	J		. 13,295 75
Total amount of stock and debt Stock and debt per mile of road				_ 570,500 00 _ 13,401 46
		FUNDED DEBT.		
What is the amount of same due each year				\$33,960 00
Was it paid for the last year? No. If interest is in default state the years and In default 1893.	amounts a	s follows:		. \$16,980 00
III UGIAUIT 1092				33,960 00
In default 1895In default 1896				33,960 00 33,960 00 16,980 00
COST OF	ROAD AN	D EQUIPMENT	١.	
TOTAL COST FOR CONSTRUCTION AND E	QUIPMBNT	OF BOAD AND B	RANCHES BUILT BY	COMPANY.
Total expended for construction and equip Average cost of construction per mile of ro Proportion of cost of construction for Mich	ad (not inc	cluding sidings),	42.57 miles	\$568,586 65 13,856 55 568,586 65
				====
DESC	RIPTION	OF ROAD.	•	
Date when the road was opened for use bet _ August, 1886.	ween its p	resent termini:		
	MAIN LI	INE.		
Length completed in Michigan, Alma to H Total length of road belonging to this com Aggregate length of sidings, spurs, and oth	pany in Mi	ichigan	42.5 ated 10.5	42.57 7
Aggregate length of tracks belonging to	this comp	any, computed a	s single track	
Gauge of track, 4 feet 8½ inches.				
STATE OF MASSACHUSETTS, COUNTY OF SUFFOLK,		•		
Nathaniel Thayer, president, and James Company, being duly sworn depose and say pared by the proper officers and agents of declare them to be a true, full and correct contained of said company, on the thirty-and belief.	E. Howar y that they of this com statement first day of	d, secretary, of have caused the pany and havin of the stock, do March, A. D. 189	the Saginaw & West of foregoing statemers of carefully examined the matter of the best of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of the statement of t	stern Railroad ents to be pre- ned the same, ters as therein seir knowledge
[L. S. OF R. R.]	Sign	ed,		_
			THAYER, <i>Preside</i> MES E. HOWARI	
Subscribed and sworn to before me this 220	day of An		MED E. HUWARI	o, becretary.
	<b>, </b>	,		N. THAYER.
[r. s]				Damon, stary Public.
STATE OF MICHIGAN, SS.			•••	
	h day of A	nwil A D 1907	e to I E Howard	
Subscribed and sworn to before me this 18t [L. S.]	m nal OI W	P. II., A. D., 1081,	ERNEST W. WE	Ller,
[M. OI]		Notary	Public. Kent Count	

Notary Public, Kent County, Michigan.

# ANNUAL REPORT

#### OF THE

# DETROIT & MACKINAO RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed April 23, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. D. HAWKS, Detroit, Mich.

Pice President, GEO. M. CROCKER, Detroit, Mich.

Secretary, A. H. GILLARD, New York City.

Auditor, GEO. M. CROCKER, Detroit, Michigan.

Treasurer, J. H. EMANUEL, Jr. New York City.

General Manager, J. D. HAWKS, Detroit, Mich.

General Superintendent, C. W. LUCE, Rast Tawas, Mich.

Chief Engineer, D. J. CAREY, Bay City, Mich.

Cashier, J. H. MOUNT, Detroit, Mich.

General Passenger and Freight Agent, T. G. WINNETT, Bay City, Mich.

General Counsel, DON M. DICKINSON, Detroit, Mich.

#### DIRECTORS.

C. H. COSTER, New York City.

E. N. GIBBS, New York City.

N. J. THOMAS, New York City.

H. B. HOLLINS, New York City.

J. D. HAWKS, Detroit, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 29, 1894. Number of stockholders at date of last election: 5. Number of stockholders in Michigan at same date: 1. Date of annual meeting of stockholders: Last Taesday in October. Fiscal year of company ends June 30. General offices of the company are located at Detroit, Michigan.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$400,622 86
Net income		\$119,520 63
Interest on funded debt	116,000 00	
Balance for the year Balance (loss) last year.	\$3,520 63 135,285 91	\$138,756 54
Items not included in above, as follows:  Construction and equipment, charged to income	\$55,683 19 3,782 82	\$130, 100 DE
Balance forward to next year.		59,466 01
•		\$79,290 53

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or a Par value of shares  Number of shares issued  Amount paid in on common  Amount paid in on preferred				SES UND UND U	,
Total amount paid in, as per b	ooks of th	as compar	y		2,045,000 00
Paid in per mile of road owned by	company	, 296.4 mile	98		6,899 44
4	ANALYSI	s of de	BT ACCOUNTS.	,	
		FUNDED	DEBT.		
Class, character and date of i	ssue.	Rate of interest.	When due.	Where payable.	Amount outstanding
First lien bonds, May 1, 1895		4%	June 1, 1995 June 1, 1995	New York	\$900,000 00 2,000,000 00
Total funded debt					\$2,900,000 00
	1	UNFUNDED	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	ow liquidated.	Amount.
For current balances					\$191,335 66
		77.0 4 TV TV	AFFON		
Total funded debt		RECAPITUL	•••••		\$2,900,000 00 191,335 69
Total debt liabilities					\$3,091,835 69
Amount of debt liabilities per mile Fotal amount of stock and debt Stock and debt per mile of road, 2	of road, 96.4 miles	296.4 mile	8		10,429 61 5,136,335 69 17,329 07

# GENERAL BALANCE SHEET.—DR.

Construction account Equipment account	\$4,666,335 311,817	47 18	
Other investments: J. P. Morgan & Co., trust accounts. J. P. Morgan & Co., coupon accounts.	43,000	00	100 1EE 00
Cash items: Cash. Bills receivable. Due from agents.	4,676	56	,186,155 62
Other assets: Materials and supplies. Debit balances from companies and individuals.	<u></u>	_	36,875 78 42,594 82
Total		 \$5,	215,626 22

# GENERAL BALANCE SHEET.—CR.

GENERAL DALANCE SHEET.—CK.		
Capital stock Funded debt Preferred stock	2,000,000 00 2,900,000 00 45,000 00	
77. A. J. J. J. J. A. A.		\$4,945,000 00
Unfunded debt:  Vouchers and accounts	\$19,888 76	
Other liabilities (list as follows):  Balance due on purchase of Alpena & Northern B. R.	171,446 98	
Profit and loss or income accounts		191,335 69 79,290 53
Total.		\$5,215,626 22 ————
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches buil	t by compan	y.
Total expended for construction and equipment		\$4,978,152 65 16,695 39
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MIC	CHIGAN.	
PASSENGER BARNINGS.		
Main line and branches:		
Local fares Express and baggage Mails	\$75,412 61 1,749 22 13,339 22	
Total passenger department earnings		\$90,501 <b>05</b>
Per train mile Per mile of road	\$0 59 305 33	
FREIGHT BARNINGS.		
Main line and branches:		
Local traffic	\$307,946 96	
Total freight department earnings		307,946 96
Per train mile	\$1 24 1,038 96	
Total transportation earnings, entire line		\$398,448 Of
Transportation earnings per mile of road	\$1.344 29	
Transportation earnings per train mile  Miscellaneous receipts from operating account, other than for transportation.	1 00	2,174 85
Total		
Distribution of miscellaneous earnings between main line and leased or propr	ietary roads	:
Less earnings on Alpens and Northern Division.  Less earnings on 18 miles of main line, south of Emery Junction, built in	Total mis- cellaneous. \$146,752 94	Proportion for Michigan
Less earnings on 18 miles of main line, south of Emery Junction, built in	6,724 75	
Total samings per mile of road 200 A	@1 DF1 00	
Total earnings per mile of road, 426.4.  Total earnings per train mile, 421,600.  Proportion of taxable earnings for Michigan.  Total taxable earnings per mile of road in Michigan.	\$1,351 63 1 00	\$247.145 17
Total taxable earnings per mile of road in Michigan	838 82	

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

MAINTENANCE OF WAI AND STRUCTURES.	
Repairs of roadway Renewals of rails Renewals of tes Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Stationery and printing Other expenses  Total	\$35,286 65 \$3,322 35 7,946 35 1,276 43 3,167 20 2,175 84 728 90 30 93 2,322 06 \$86,206 71
MAINTENANCE OF EQUIPMENT.	
Superintendence.  Repairs and renewals of locomotives.  Repairs and renewals of passenger cars.  Repairs and renewals of freight cars.  Repairs and renewals of work cars.  Repairs and renewals of shop machinery and tools.  Stationery and printing.  Other expenses	\$12,124 76 2,424 66 13,579 49 756 77 759 96 33 20 6,410 08
Total	\$36,088 92
•	
CONDUCTING TRANSPORTATION.	
Superintendence.  Engine and roundhouse men Fuel for locomotives.  Water supply for locomotives.  Oil, tallow and wate for locomotives.  Other supplies for locomotives.  Train service.  Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service.  Station service.	\$2,736 04 25,221 71 87,260 90 2,736 08 2,494 34 306 99 24,533 09 1,469 11 803 22
Car mileage—balance Loss and damage Injuries to persons Clearing wrecks Advertising Stationery and printing Other expenses	715 89 12,736 29 3,767 85 2,178 87 55 10 108 96 969 37 1,320 93 2,588 65
Total	\$122,601 81
GENERAL EXPENSES.  Salaries of general officers	\$15,600 00 10,520 95 2,227 74 1,228 90 699 71 1,907 75
	4,014 74
Ţotal	\$36,204 79
RECAPITULATION OF EXPENSES.  Per cent of expenses.	
	\$86,206 71 36,088 92
Maintenance of equipment 12.84	36,088 92 122 801 91
Conducting transportation 43.61 General expenses, including taxes 12.88	122,601 81 86,201 79
Total operating expenses and taxes. 100.00	\$281,102 23
Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 401,600 miles Percentage of expenses to earnings 70.19 Net earnings per mile of road Net earnings retrain mile	\$948 12 70
Net earnings per mile of road	408 24 30

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Bay City, Michigan, to La Roque City, Michigan, September 20, 1896.

MAIN LINE.	Miles.
In Michigan, from Bay City to La Roque	. 160.10
Total length completed	. 160.10
BRANOHES.	
Rose City, from Emery Junction to Rose City.       31.8         Prescott, from Emery Junction to Prescott.       11.8         Mud Lake, from Mud Lake Junction to Pritchards       6.         Valentine Lake, from La Roque to Valentine Lake       25.7         Logging branches       61.	0
Total length of branches owned by company in Michigan	. 186.30
Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track	. 30. 9
Gauge of track, 4 feet 8½ inches.	
If north of parallel 44 of latitude:	
Give date road commenced to be built: Alpena & Northern, May, 1893; main line, 1896.	
Give date road completed: Alpena & Northern, September 23, 1894; main line, 1896.	
Give date road commenced to be operated: Alpena & Northern, November 18, 1893; main line, September 20, 1896.	
Where built from and to: Alpena & Northern from Alpena to Jackson Lake; main line south from Emery Junction	1.
Give exact number of miles: Alpena & Northern 54.70 miles; main line 18 miles.	

Number of bridges and trestles in Michigan.

	Number.	Aggregate length, feet.
Wooden bridges	4	764
Iron bridges	8	1.553
Combination bridges	1	477
Wooden treatles	25	2,352
Total	38	5,146

Draw bridges in Michigan.

How many on your line? One.

Where located, when built and length of draw span? Bay City, 1896; 220 feet; over Saginaw river.

Character of structure? Truss.

Material of which constructed. Steel.

Height above water, and depth of water under bridge. 12 feet and 82 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Curved.

Do you require all trains to come to fall stop before crossing a draw, and how are they signaled? Yes. Red and white signals.

# Crossings.-Railroad and highway.

Crue	sings.—with odd and myn	way.		
What railroads cross your road at grade in this State, and at what locality? Au Sable & Northwestern R. R. at Au Sable. Michigan Central R. R. at Pinconning. Grand Trunk R'y at North Bay City.				
At what crossings are interlocking and Au Sable and Northwestern R. R. at Michigan Central R. R. at Pinconnin Grand Trunk R'y at North Bay City	ng.	ration?		
What pattern or patterns have you ad Union Switch & Signal Company's.	opted?			
Number of crossings of highways at gr	ade in this State			188
Are your frogs and guard rails blocked Yes,	l as required by act 174, ses	sion laws of 1	883?	
How are they treated? With wooden blocks.				
	Stations.			
Number of stations on whole lines				53
				====
	Employés.			
Number of persons regularly empto officials	yed on all roads operate	d by compan	y, including	331
Classify your employés as per followin				umber.
Baggagemen Brakemen				5 32
Conductors				14
EngineersFiremen				17 17
Laborers				133
Shopmen Yardmen				61 2
Others			·	50
	REPAIRS AND RENEWALS.			
	Fencing in Michigan.			
How many miles of fencing have you?				180.5
			===	
N . 1 44 . 1 45	Road bed and track.			
Number of track sections in Michigan Average lengths of sections, miles				32 9
Average number of men in each section	n gang			41 700
Number of new ties put in track in Mi Average number of new ties per mile o	f road, 296.4	- <b></b>		41,596 140
New bridges built during the year—Number, 8.				
		l		Feet in
Location.	Kind.	Material.	Month built.	length.
	<del></del>			ļ
Au Gres river.	Truss and trestle	Wood	January	176
Rifle river. Through girder. Steel Pebruary Pine river. Plate "June Saganing river " July				110 110 60
Kawkawlin river " October				
Saginaw river	TrussPile trestle	Wood	August	105 672 144
	- AND ALDERAY			***

DΩ	T.T	JNG.	STO	CK

		resent esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	19	\$95,000 00 8,000 00
Total	20	\$98,000 00
Number of passenger cars—12-wheel, including official cars  Number of passenger cars—8-wheel, including official cars  Number of express and baggage cars  Number of box freight cars  Number of platform cars  Number of conductors' way cars	1 8 6 95 381 5	\$7,200 00 19,250 00 7,440 00 38,000 00 95,250 00 2,150 00
Other cars as follows: Timber trucks. Derrick Flanger	250 1 1	16,250 00 1,800 00 350 00
Total		\$187,690 00
Number of locomotives equipped with power brakes		20 14
What patterns of power brakes have you in use, and number of locomotives an Westinghouse, 6 locomotives, 14 passenger cars, 160 freight cars.  American, 14 locomotives.	d cars with e	sach?
Are your freight cars being equipped with automatic couplers as required by s of 1885, as amended by act No. 88, session laws of 1887, Yes.	ct No. 147, s	ession laws

What pattern or patterns have you adopted for use? Gould.

How are your passenger cars heated? Smith & Owen and Baker hot water.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	In Michigan.	
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		
Total mileage of trains earning revenue	401,600	
Passenger traffic.—Road all in State of Michigan.		
Total number of passengers carried, earning revenue	Rate.	
Number of passengers carried one mile 8,278,209  Average distance carried 44.78  Average amount received from each passenger.  Average receipts per passenger per mile for all passengers.	\$1 03	
	. 02.08	
Freight traffic.—Road all in State of Michigan.		
Tons.   Miles.   Number of tons of local freight carried, earning revenue		
Average ton haul for local freight. \$8  Average amount received for each ton haul.  Average receipts ton per mile, for local freight.	\$0 71 02	

### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

	Freight originating	Freight received from connecting	Total freigh	t tonnage.
Commodity	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
GrainFlour			1,750 1,820	.40 .82
Flour Other mill products		************	535	.12
Hav			2,040	.57
Fruit and vegetables.			170	.04
Potatoes			81.8	.07
Products of animals:				
Live stock			2,090 805	.58 .19
Hides and leather			2,814	. 75
11466 814 164 W.O			2,011	
Products of mines: Bituminous coal Stone, sand and other like articles. Salt			1,878 2,130 494	.42 .68 .11
Products of forest:			l	
Lumber				14.28
Logs. Shingles			250,881 80,530	57. <b>6</b> 0 18.88
Outriging			00,000	10.00
Manufactures: Petroleum and other oils			440	.10
Iron, pig and bloom			1,860	.42
Other castings and machinery Coment, brick and lime			2,688 18,870	.62 3.20
Comonic office and mine			10,010	0.20
Merchandise			658	.15
Miscellaneous: Other commodities not mentioned above			4,900	1.15
Total tonnage			488,886	100.00

## ADDITIONAL QUESTIONS.

## Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. 40% of gross revenue. Freights taken at depot.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

138 miles. Western Union Telegraph Co.

### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Blue Line Canada Southern Line	Rochester, N. Y	210 59
Swift Refrigerator Transportation Co. George H. Hammond Co. Burton Stock Car Co.	Chicago, Ill	91 12 84 01
Merchants' Despatch Transportation Co	New York, N. Y.	. 94.80
Empire Line	St. Albans, Vt	21 01 2 98 3 87
Union Tank Line. Provision Dealers' Despatch Pearcy Grain Line Co. Pittsburg Plate Glass Co. J. E. B. Furniture Line	Chicago, Ill. Minneapolis, Minn. Pittsburg, Pa.	6 30 1 75 1 26
Mather Horse & Stock Car Co. Morris Coal and Transportation Co. Chicago Refrigerator Car Line American Refrigerator Transit Co. Kansas City Dressed Beef Line	Cleveland, O. Chicago, Ill. St. Louis, Mo.	28 55 5 50 91

## REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### KILLED.

August 5, Mike Dwyer, lumberman, Hurst. Trespasser; company not responsible.

## INJUR**E**D.

August 20, Peter Rose, section foreman, Black River. Carelessness.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.			Injured.	
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Highway crossings			1		1	
Total			1		1	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year.  Number resulting from lack of caution, carelessness, or misconduct.	1
Trespassers and tramps killed or injured	. <b>i</b>

## DETROIT & MACKINAC RAILWAY COMPANY.

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Isjured.	Total.
Laborers		1	
Total		1	

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

Jas. D. Hawks, president, and George M. Crocker, auditor of the Detroit & Mackinac Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES D. HAWKS, GEORGE M. CROCKER.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

[L. S.]

NICHOLAS J. FLEMING,

Notary Public, Wayne County, Michigan.

When purchased by present company:
April 16, 1895.

## ANNUAL REPORT

OF THE

## DETROIT & MACKINAC BAILWAY COMPANY,

[ALPENA & NORTHERN DIVISION,]

For the year ending December \$1, 1896.

[Filed April 23, 1897.]

## COST OF BOAD AND EQUIPMENT.

### PURCHASED BY PRESENT COMPANY.

Original cost to present company of road and equipment.	<b>\$825,000 00</b>
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICHIGAN.	
PASSENGER EARNINGS.	
Local fares. \$11,984 70 Mails	
Total passenger department earnings	\$13,098 02
Main line and branches:	
Local traffic \$183,599 92	
Total freight department earnings	133,599 92
Total transportation earnings entire line.	\$146,692 94
From other sources	60 00
Total	\$146,752 94
DESCRIPTION OF BOAD.	,
MAIN LINE. Miles.	Miles.
In Michigan, from Alpena to La Roque	29.
BRANCHES.	
Valentine Lake, from La Roque to Valentine Lake 25.70 Others 30.	
Total length of branches owned by company	55.70
Total length of road belonging to this company	84.70
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company computed as single track	7.05 91.75

Gauge of track, 4 feet 8% inches.

If north of parallel 44 of latitude: Yes.

Give date road commenced to be built: May, 1893.

Give date road completed: September 28, 1894.

Give date road commenced to be operated: November 1893.

Where built from and to: Alpena to La Roque.

Give exact number of miles: 84.7.

STATE OF MICHIGAN, as.

James D. Hawks, President, and George M. Crocker, auditor of the Detroit & Mackinac Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief. JAMES D. HAWKS, Signed, [L. S. OF R. R.]

Subscribed and sworn to before me this 22d day of April A. D. 1897. [L. S.]

NICHOLAS J. FLEMING,

GEORGE M. CROCKER.

Notary Public, Wayne County, Mich.

## ANNUAL REPORT

OF THE

## DETROIT & MACKINAC RAILWAY COMPANY,

[EMERY JUNCTION TO PARALLEL 44 OF LATITUDE,]

For the year ending December 81, 1896.

[Filed April 23, 1897.]

### ANALYSIS OF EARNINGS .- ROAD ALL IN STATE OF MICHIGAN.

#### PASSENGER EARNINGS.

Main line and branches: Total passenger department earnings.	\$1,844 95
FREIGHT BARNINGS.	
Main line and branches: Total freight department earnings	5,879 80
Total transportation earnings, entire line	\$6,724 75
DESCRIPTION OF ROAD.	
MAIN LINE.	Miles.
In Michigan, from Emery Junction to Parallel 44.	18
If north of parallel 44 of latitude: Yes.	
Give date road commenced to be built: 1896.	
Give date road completed: 1896.	
Give date road commenced to be operated: September 20, 1896.	
Where built from and to: Emery Junction to parallel 44.	
Give exact number of miles: 18.	

# STATE OF MICHIGAN, } 88.

James D. Hawks, President, and George M. Crocker, Auditor of the Detroit & Mackinac Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES D. HAWKS, GEORGE M. CROCKER.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

NICHOLAS J. FLEMMING,

Notary Public, Wayne County, Mich.

### ANNUAL REPORT

OF THE

## DULUTH, SOUTH SHORE & ATLANTIC RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed April 5, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, GEN. SAMUEL THOMAS, New York, N. Y.
First Vice President, HON. CALVIN S. BRICE, New York, N. Y.
Second Vice President, SIR WILLIAM C. VAN HORNE, Montreal, Canada.
Secretary, GEO. H. CHURCH, New York, N. Y.
Auditor, A. E. DELF, Marquette, Mich.
Treasurer, E. W. ALLEN, Marquette, Mich.
General Manager, WM. F. FITCH, Marquette, Mich.
Superintendent, C. E. LYTLE, Marquette, Mich.
Division Superintendents, {A. M. SUTHERLAND, Thomaston, Mich.
Division Superintendents, {F. E. KETCHUM, Marquette, Mich.
Chief Engineer, H. J. PAYNE, Marquette, Mich.
General Passenger Agent, GEO. W. HIBBARD, Marquette, Mich.
General Freight Agent, WM. ORR, Duluth, Minn.
Attorney, A. B. ELDREDGE, Marquette, Mich.

### DIRECTORS.

GEN. SAMUEL THOMAS, New York, N. Y.
HON. CALVIN S. BRICE, New York, N. Y.
SIE DONALD A. SMITH, Montreal, Canada.
SIE WILLIAM C. VAN HORNE, Montreal, Canada.
THOS. G. SHAUGHNESSY, MONTREAL, Canada.
JAS. O. BLOSS, New York, N. Y.
JOHN W. STERLING, New York, N. Y.
WALTER WATSON, New York, N. Y.
THOS. W. PHAESALL, New York, N. Y.
GEO. H. CHURCH, New York, N. Y.
WILLIAM F. FITCH, Marquette, Mich.
Terms expire June 3, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 7, 1887.
Number of stockholders at date of last election: 310.
Number of stockholders in Michigan at same date: 15.
Amount of full paid stock held in Michigan at same date: 9,840 shares.
Date of annual meeting of stockholders: First Tuesday in June.
Fiscal year of company ends December 81.
General offices of the company are located at Marquette, Mich.

G	ENERAL E	EXHIBIT.	Debit	. Credit.
Total earnings from operation				
Total expenses including taxes			\$1,278,142 14	
Net income				\$682,668 89
Interest on funded debt			856 47 229,286 45 960,775 45	3 3 32,402 20
	-	PITAL STOCK.		
Amount authorized by charter or articles				
?ar value of shares		220,000	\$100 00	
Par value of shares Number of shares issued Amount paid in on sommon Amount paid in on preferred		,	\$12,000,000 00 10,000,000 00	)
Total amount paid in, as per books of				•
Paid in per mile of road owned by compan	=	•		
	• • • • • • • • • • • • • • • • • • • •			
ANALYS	IS OF DE	BT ACCOUNTS.		
	FUNDED 1	DEBT.	· · · · · · · · · · · · · · · · · · ·	
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
D., S. S. & A. first mort's, Jan. 1, 1887 D., S. S. & A., first consols., July 17, 1890 M., H. & O., 6% mort's bonds Apr. 1, 1885 D., S. S. & A. 20 year income certificates,	- 5% - 4% - 6%	Jan. 1, 1987 Aug. 1, 1990 April 1, 1925	New York, N. Y New York, N. Y New York, N. Y	\$3,947,000 00 14,976,000 00 1,077,000 00
Dec. 31, 1892.  Der trust notes of Feb. 6, 1894.  Der trust notes of Oct. 2, 1895.  Der trust notes of Feb. 8, 1896.  Der trust notes of April 2, 1896.	- 45	Dec. 31, 1912 Dec. 1, 1903 Oct. 1, 1905 Feb. 1, 1906 April 1, 1906	New York, N. Y Toronto, Ont Toronto, Ont Toronto, Ont Montreal, Que	8,000,000 0 71,394 5 91,792 9 279,050 5 236,213 1
Total funded debt	<u> </u>			\$23,678,451 2
	UNFUNDED	DEBT.		<u></u>
For what incurred.	the same t	o be funded or ho	w liquidated?	Amount.
For construction. For equipment. For accrued interest on bonds. For miscellaneous. For current balances.				\$86,500 00 19,000 00 265,755 00 3,121,748 11 396,503 51
Total unfunded debt				\$3,889,501 6
	RECAPITUI	ATTON		
Fotal funded debt				.\$23,678,451 2 8,889,501 6
Total debt liabilities				\$27,567,952 8
Amount of debt liabilities per mile of roa Total amount of stock and debt Stock and debt per mile of road 571.71 mi	d 571.71 mile	98		48,220 1 49,567,952 8 86,701 2

## GENERAL BALANCE SHEET.-Dr.

Construction account	8	12,522,089 78
Equipment account		2,333,973 80
Other investments:		
Mackinac Transportaton Co. \$235, Lake Superior Terminal & Transfer R'y 18,1	00.00	
Lake Michigan & Lake Superior R'v 7.6	82 KX	
Mackinac Transportaton Co.         \$235.           Lake Superior Terminal & Transfer R'y         18,1           Lake Michigan & Lake Superior R'y         7,6           Duluth Manufacturing Co.         2,3	87 00	
Ropes Gold Mining Co. 2 Sault Ste. Marie Bridge Co. 2	87 00 60 00 50 00	
Sault Ste. Marie Bridge Co.	95 00	
Mineral Range R. R. Co	79 47	
Western Express Co. 25.0	10 000	
M. H. & O. lands 11, Special equipment, 600 ore cars 343,	81 76	
Special equipment, 600 ore cars	09 86	3,082,944 40
Cash items:		3,002,941 40
Cash \$9,	07 20 31 45	
Cash S9, Due from agents 42,	31 45	FO FOO AT
Other costs.		52,538 <b>6</b> 5
Other assets: Materials and supplies. \$158,	71 25	
Materials and supplies. \$158, Debit balances from companies and individuals. 245,	375 34	
		898,746 59
Profit and loss		1,177,639 65
Total	\$	49,567,952 87
GENERAL BALANCE SHEET.—Cr.		
GENERALI DALIANOR SARRI,—OR.		
Capital stock	\$	22,000,000 00
Funded debt:	M M	
D., S. S. & A. first mortg. 5% bonds	00 00	
M. H. & O. 6% mortg. bonds 1,077,	000 000	
D., S. S. & A. 4% income certificates	00 00	
Car trust notes, 3d series. 91,	194 90 050 58	
Car trust notes, 4th series 279, Car trust notes, 5th series 238,	792 98 050 53 213 19	
		23,678,451 27
Unfunded debt:		
Interest unnaid	755 M	
Notes payable 715.		
	500 00	
Notes payable 715, Vouchers and accounts 428,	755 00 500 00 656 88	
Vouchers and accounts	000 88	3,889,501 63
Vouchers and accounts 428, Other liabilities: Miscellaneous loans \$2,481,	000 88	
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans \$2,481,	589 75	3,889,501 63
Vouchers and accounts	589 75	3,889,501 63
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans \$2,481,	589 75	3,889,501 63
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans. \$2,481,  Total	589 75	3,889,501 63
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans \$2,481,	589 75	3,889,501 63
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans. \$2,481,  Total	589 75	3,889,501 63
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans \$2,481,  Total  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by construction and equipment Average cost per mile of road (not including sidings) 571.71 miles  Proportion of cost for Michigan, 465.18 miles  CHARGES AND CREDITS TO PROPERTY DURING THE YEAR	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75	3,889,501 63 849,567,932 87
Other liabilities: Miscellaneous loans	589 75 omp 15	3,889,501 63 849,567,932 87 
Other liabilities: Miscellaneous loans	589 75 omp 15	3,889,501 63 849,567,932 87 
Other liabilities: Miscellaneous loans	589 75 omp 15	3,889,501 63 849,567,932 87 
Other liabilities: Miscellaneous loans	589 75 omp 15	3,889,501 63 849,567,932 87 
Other liabilities: Miscellaneous loans	589 75 omp 15	3,889,501 63 849,567,932 87 
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans. \$2,481,  Total  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by of the cost per mile of road (not including sidings) \$71.71 miles  Proportion of cost for Michigan, 465.18 miles  CHARGES AND CREDITS TO PROPERTY DURING THE YEA  MAIN LINE.  Land and right of way and extensions and new sidings  Refunding bonded debt.  New buildings.  New locomotives.	589 75 00mp 11	3,889,501 63  849,567,932 87  844,856,068 58 78,459 47 36,497,776 24  \$21,069 86 86,661 50 8,667 54 4,708 29 759 86 2,872 21
Other liabilities: Miscellaneous loans	589 75 00mp 11	3,889,501 63  849,567,952 87  844,856,068 58 78,459 47 36,497,776 24  821,069 86 86,661 50 3,667 54 4,708 29 759 86 2,872 21 8119,739 26
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans. \$2,481,  Total  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by of the construction and equipment and equipment.  Average cost per mile of road (not including sidings) \$71.71 miles  Proportion of cost for Michigan, 485.18 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE YEA  MAIN LINE.  Land and right of way and extensions and new sidings  Refunding bonded debt.  New buildings.  New feaces.  Machinery and tools  New locomotives.  Total.	589 75 589 75	3,889,501 63  849,567,932 87  844,856,068 58 78,459 47 36,497,776 24
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans. \$2,481,  Total  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by of the construction and equipment and equipment.  Average cost per mile of road (not including sidings) \$71.71 miles  Proportion of cost for Michigan, 485.18 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE YEA  MAIN LINE.  Land and right of way and extensions and new sidings  Refunding bonded debt.  New buildings.  New feaces.  Machinery and tools  New locomotives.  Total.	589 75 589 75	3,889,501 63  849,567,932 87  844,856,068 58 78,459 47 36,497,776 24
Vouchers and accounts. 420,  Other liabilities: Miscellaneous loans. \$2,481,  Total  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by of the cost per mile of road (not including sidings) \$71.71 miles  Proportion of cost for Michigan, 465.18 miles  CHARGES AND CREDITS TO PROPERTY DURING THE YEA  MAIN LINE.  Land and right of way and extensions and new sidings  Refunding bonded debt.  New buildings.  New locomotives.	589 75 589 75	3,889,501 63  849,567,932 87  844,856,068 58 78,459 47 36,497,776 24

## ANALYSIS OF EARNINGS—IN STATE OF MICHIGAN.

Local fares	PASSENGER BARNINGS.		
Express and baggage   35,137 29   425,225 11	Main line and branches: Local fares	\$290,938 64 197 988 47	
Express and baggage			
Total passenger department earnings   \$0.6,576 07		•	
Main line and branches:			\$506,876 07
Main line and branches:	Per trein mile	\$0 84.26 1,067 04	
Local traffic	Main line and branches:		
Total freight department earnings	Local traffic Through traffic	698,199 52 491,949 32	
Per train mile	Total traffic	\$1,190,148 84 4,619 60	
ANALYSIS OF EARNINGS.—ENTIRE LINES.	Total freight department earnings		1,194,768 44
Name	Per train mile Per mile of road	\$1 69.95 2,515 14	
Main line and branches:	ANALYSIS OF EARNINGS.—ENTIRE LINES.		
Local fares	PASSENGER BARNINGS.		
Express and baggage	Local fares	\$312,087 92 159,705 40	
Total passenger department earnings   \$563,023 84	_		
Per train mile	Express and baggage	39,358 <b>69</b> 51,871 83	
PRESENT BARNINGS.	Total passenger department earnings		\$563,023 84
Main line and branches:   Local traffic			
Cocal traffic   723,313 60	Per train mile	\$0 82 <b>956 99</b>	
Total freight department earnings	Per mile of road	<b>\$0 82 956 99</b>	
Per train mile	Per mile of road	956 99	
Total transportation earnings, entire line   \$1,872,982 56	Per mile of road  FREIGHT BARNINGS.  Main line and branches: Local traffic Through traffic	723,313 60 582,025 52	
125.18   Miscellaneous receipts from operating account other than for transportation, as follows: From car milesge halance	Per mile of road    Main line and branches:   Local traffic   Through traffic     Total traffic   Other sources, freight department.	723,313 60 582,025 52 \$1,305,339 12 4,619 60	1,309,958 72
From car mileage balance	Per mile of road  FREIGHT BARNINGS.  Main line and branches: Local traffic Through traffic  Total traffic Other sources, freight department  Total freight department earnings	723,313 60 582,025 52 \$1,305,339 12 4,619 60	1,309,958 72
Total	Per mile of road  Main line and branches: Local traffic. Through traffic.  Total traffic. Other sources, freight department.  Total freight department earnings Per train mile. Per mile of road.  Total transportation earnings, entire line. Transportation earnings per mile of road.	956 99  723,313 60 582,025 52 \$1,305,339 12 4,619 60  2,226 57  \$3,182 06	
Distribution of miscellaneous earnings between main line and leased or proprietary roads:  Total miscellaneous. Froportion cellaneous. for Michigan.  Duluth, South Shore & Atlantic Railway. \$32,827 97 \$7,124 78  Total earnings from operation of road. \$1,905,810 58  Total earnings per mile of road. \$3,239 36  Total earnings per train mile. 127.87  Proportion of taxable earnings for Michigan. 1,708,769 29  Total taxable earnings per mile of road in Michigan. 3,597 18  Income other than from earnings. 32,402 20	Per mile of road    FREIGHT BARNINGS.	956 99  723,313 60 582,025 52 \$1,305,339 12 4,619 60  \$1 61.80 2,226 57  \$3,182 06 1 25.18 Las follows:	
Total miscoellaneous. for Michigan.   S32,827 97   \$7,124 78	Per mile of road  FREIGHT BARNINGS.  Main line and branches: Local traffic. Through traffic. Other sources, freight department.  Total freight department earnings Per train mile Per mile of road.  Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per mile of road Transportation earnings per train mile Miscellaneous receipts from operating account. other than for transportation From rents of tracks, yards and terminals From rents not otherwise provided for	956 99  723,313 60 582,025 52 \$1,305,339 12 4,619 60  \$1 61.80 2,226 57  \$3,182 06 1 25.18 Las follows:	\$1,872,982 56
Duluth, South Shore & Atlantic Railway	Per mile of road  Main line and branches: Local traffic. Through traffic. Other sources, freight department.  Total freight department earnings Per train mile Per mile of road.  Total transportation earnings, entire line Transportation earnings per mile of road. Transportation earnings per mile of road. From car mileage balance. From rents of tracks, yards and terminals From rents not otherwise provided for.  Total	\$1,305,339 12 4,619 60 \$1,305,339 12 4,619 60 \$1,8182 06 1 25,18 1,85 follows: \$3,182 06 1,25,18 3,586 80 25,300 23	\$1,872,982 56 32,827 97
Total earnings per mile of road   \$3,239 80	Per mile of road  Main line and branches: Local traffic. Through traffic. Other sources, freight department.  Total freight department earnings Per train mile Per mile of road.  Total transportation earnings, entire line Transportation earnings per mile of road.  Transportation earnings per train mile Miscellaneous receipts from operating account, other than for transportation From rents of tracks, yards and terminals From rents not otherwise provided for.  Total  Distribution of miscellaneous earnings between main line and leased or propositions.	\$1,305,339 12 4,619 60 \$1,305,339 12 4,619 60 \$1,61.80 2,226 57 \$3,182 06 1, 25.18 1, 25.18 1, 25.88 25,300 23	\$1,872,982 56
	Per mile of road  Main line and branches: Local traffic. Through traffic.  Total traffic. Other sources, freight department.  Total freight department earnings  Per train mile Per mile of road.  Total transportation earnings, entire line Transportation earnings per mile of road  Transportation earnings per train mile Miscellaneous receipts from operating account other than for transportation From car mileage balance. From rents of tracks, yards and terminals. From rents not otherwise provided for  Total  Distribution of miscellaneous earnings between main line and leased or proposition.	\$1,305,339 12 4,619 60 \$1,6180 2,228 57 \$3,182 06 1 25.18 1,as follows: \$3,940 94 2,586 80 25,300 23  rietary roads Total mis- cellaneous. f	\$1,872,982 56 32,827 97 : Proportion or Michigan.
Total income from all sources \$1,938,212 78 Proportion of income for Michigan 1,741,171 49	Per mile of road    FREIGHT BARNINGS.	\$1,305,339 12 4,619 60  \$1,305,339 12 4,619 60  \$1,61.80 2,226 57  \$3,182 06 1,25.18 a, as follows: \$3,940 94 3,586 80 25,300 23  rietary roads Total missellaneous fellaneous fellaneous fells \$32,827 97	\$1,872,982 56 32,827 97 : Proportion or Michigan. \$7,124 78
	Per mile of road    FREIGHT BARNINGS.	\$1,305,339 12 4,619 60  \$1,305,339 12 4,619 60  \$1,61.80 2,226 57  \$3,182 06 1,25.18 a, as follows: \$3,940 94 3,586 80 25,300 23  rietary roads Total missellaneous fellaneous fellaneous fells \$32,827 97	\$1,872,982 56 32,827 97 : Proportion or Michigan. \$7,124 78

## ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of tocks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses  Total  MAINTENANCE OF EQUIPMENT.  Superintendence.	\$216,678 53 31,015 64 41,524 13 9,40 75 4,850 70 7,470 16 2,610 47 125 47 10 37 \$305,226 22 \$8,015 97 58,834 82 17,973 88
Superintendence	17,973 98 58,497 89 4,239 92 4,488 51 193 83 6,219 95
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men. Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service. Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses. Station service Station service Station supplies Switching charges—balance Loss and damage Injuries to persons Clearing wrocks Operating marine equipment Advertising. Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses.	\$27,920 40 144,253 48 159,143 78 11,862 48 4,091 48 1,826 81 97,672 28 16,936 70 43,062 84 81,580 48 83,670 12 9,559 02 7,285 73 5,887 77 4,374 86 773 55 26,924 78 2,339 87 8,246 48 10,717 55 5,115 00 10,812 14 129 62
GENERAL EXPENSES.	
Salaries of general officers. Salaries of slerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.	\$15,375 00 25,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90 88,462 47
RECAPITULATION OF EXPENSES. Per cent of expenses.	
Maintenance of way and structures.     23.97       Maintenance of equipment.     12.05       Conducting transportation.     56.10       General expenses, including taxes.     7.88	\$905,226 22 153,413 87 714,218 61 100,283 44
Total operating expenses and taxes	\$1,278,142 14
Operating expenses and taxes per mile of road. \$2,163 99 Operating expenses and taxes per train mile run for trains earning revenue, 1,496,239 miles. 1,	
Total proportion of expenses for Michigan \$1, Percentage of expenses to earnings 66.80	106,574 90
Percentage of expenses to earnings	1,075 36 42.28

## DESCRIPTION OF ROAD.

Newberry Asylum Branch, June, 1894.
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main line.	
In Michigan, from Sault Ste. Marie to Wisconsin State line 302, 37 In Michigan, from St. Ignace to Soo Junction 42. 97 In Michigan, from Nestoria to Houghton 48. 24 In Michigan, from Marquette to Winthrop Junction 17. 33	Miles.
In Wisconsin, from Michigan State Line to West Superior	410.91 106.53
Total length completed	517.44
Length of double track on main line	2.46
BRANCHES.	
Palmer, Negaunee to Volunteer Mine Bay Mills, Bay Mills Station to Hall & Munson Mills. Republic, Humboldt to Republic Bessemer, Bessemer Junction to end of track Newberry Asylum Branch Hall, Munson & Perry Branch Prison Branch Furst Stone Quarry Branch Teal Lake Branch Lake Angeline Branch Baron Branch Martel Furnace Branch Mackinaw Mill Branch Lake St. Marquette Branch Polygonal Branch Ragle Mill Y's Branch Winthrop Branch Dexter Branch Neff's Kitchi Branch Neff's Kitchi Branch Trout Creek Branch McRei's Ewen Branch Clark, Farnum & Co's Branch Grand Rapids Mine Branch L'Anse M'dse Pier Branch Darmen M'dse Pier Branch Darmag Mill Branch Jamisson's Branch L'Anse M'dse Pier Branch Darmag Mill Branch Jamisson's Branch Lucy Mine Branch Lucy Mine Branch Lucy Mine Branch Lucy Mine Branch Lucy Mine Branch Lucy Mine Branch	6.09 2.25 8.70 2.06 2.37 7.22 45 40 1.47 62 39 95 2.60 2.60 98 1.87 91 79 1.72 2.98 2.88 31 54.27
Miles. Total length of branches owned by company	Miles, 54,27
Total length of branches owned by company	J <del>2</del> .61
Total length of road belonging to this company	571.71
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company, computed as single	109.02
track	574.20
Gauge of track, 4 feet 81/4 inches.	

## Proprietary or leased roads operated by this company.

	P	ropriet	iry oi	· leased roads operated by this company	<i>y</i> .	
Name, descrip	tion and lan	gth of	each:		Total miles.	In Michigan.
		- ··· · ·				
Trackage rig	r R. R.				2.98	2.98
Superior 1	erminal R'y				6.87	6.87
Chic St	Peni Winn	# Om 1	D'		.38 1.64	
Lake Supe	rior Termin	al & Tr	ansfe	r R'y.	.72	
Northern	Pacific R. R.			г В'у	3.88	
Dalath U	non Depot (	ю			.20	
Total					16.62	9.85
Total miles of	perated by co	ompany			588.38	475.08
		Name	her o	f bridges and trestles in Michigan.		Accreage
		21 000		y or tages and treates in Maringan.	Number.	Aggregate length, feet.
Wooden					* 30	
Iron.						539.5
Wooden trest	.08			•••••••••••		39,680
Total				******************************	239	42,398.5
			•			
* The 80 wo	nden snans a	re nerte	of ce	ertain trestles.		1
120 00 110	ocom openio e	.o para	, 01 01			
				•		
				Dugan buildoon in Michigan		
				Draw bridges in Michigan.		
How many on	your line?					
One.	•	•				
Where located On Bay Mill	l, when built s branch, Fe	and le	1891	of draw span: ; 82 feet.		
Character of Jack-knife d	structure :					
Material of w Wood and is	hich constru ron.	cted:				
Height above	water, and d	lepth of depth 1	wat 2% fe	er under bridge : et.		•
			-			
How swung, b	r.	nanu p	JWELI	, •		
Approaches at Straight.	raight or cu	rved1				
Do you recuir	a all trains t	o come	to fn	ll stop before orossing a draw, and how	are they sig	maled?
Yes; signale	d by "stop	board	s, 400	ll stop before crossing a draw, and how feet each way from draw.	are men sig	,22001
				einge.—Railroad and highway.		
What railroad	is Cross your	road a	grad	le in this State, and at what locality?		
Minneapolis	St. Paul &	Sault S	te. M	arie K'y at Trout Lake	<b></b>	1
manistique Chicago & N	ny, west of	Deney. R'v st	Palm	arie R'y at Trout Lake		1
••	••	•••	Sout	h Jackson Mine	•••••••••••••••••••	î
44	66 66	**	Neg	in Jackson Mine aunee Station t Negaunee, main line num Mine		į
**	**	14	Wes	t Negaunee, main line		1
44	44	44	St. I	awrence Mine		‡
44	**	44	Lak	e Angeline Minethrop Branch		i
"	**	"	Win	throp Branch		8
••	44	**	Kanı	on Branchublic Mine		
	44	4.	Mich	igamme, main line		:::: i
<b>16</b>	**	**	Mich	nigamme, main line nigamme, Mill tracks e Superior, Section 7 Mine		2
Chicago Mile			Lak	e Superior, Section 7 Mine Champion		1
OHIOMEO, MIN	••	••	y ac	Republic Mine		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		**		Republic		ī
Nonton Tord	" " Doed of S	••		Sidnaw		
Nester Loggi:	ng noad at a	orang M				1

What railroads cross your road either over or under your grade in this State, and where?  Over:	
Chicago & Northwestern R'y one mile east of Champion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lake Superior & Ishpeming B. R. at Bagdad Junction	. į
Morgan	: į
Blue Mine	: 1
Under: Munising R. R. at Munising Junction Chicago & Northwestern R. R. at Negaunee	
-	
At what crossings are interlocking and derailing switches in operation?  Chicago & Northwestern R'y at Republic	. 1
Manistique R'y at Seney.	. 1 . 1 . 1
Manistique R'y at Seney. Chicago & Northwestern R'y at Michigamme Chicago, Milwaukee & St. Paul R'y at Sidnaw	1 1
What pattern or patterns have you adopted? At Republic and Michigamme Union Switch & Signal Co. At Seney Gravitt Interlocking Switch Co. At Sidnaw Saxby & Farmer.	
Number of crossings of highways at grade in this State	184
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	18
Number of crossings at which there are electric or automatic signals	8
Union Switch & Signal Co.  Number of crossings of highways over or under railroad: over, 2; under 9,	11
Number of highway bridges 13 feet above track Have safety guards been erected at overhead obstructions? Yes.	2
Are your frogs and guard rails blocked as required by act 174, session laws of 1883. Yes.	
How are they treated? Filled in with wooden blocks.	
Stations.	
Number of stations on whole line	52 43
Number of stations on whole line	53 43
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including	
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials	1,572
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan	1,572 1,445
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.	1,572 1,445 Number.
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen	1,572 1,445 Number.
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers	1,572 1,445 Number. 22 82 41 62
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemen  Laborers	1,572 1,445 Number. 22 82 41 62 63 63
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Engineers  Firemen	1,572 1,445 Number. 22 82 41 62 63 504 179 51
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemea  Laborers  Shopmen	1,572 1,445 Number. 22 82 41 62 63 504 179
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemen  Laborers  Shopmen  Yardmen	1,572 1,445 Number. 22 82 41 62 63 504 179 51
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Firemen  Laborers  Shopmen  Yardmen  Others	1,572 1,445 Number. 22 82 41 62 63 504 179 51
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers Bhopmen Yardmen Others	1,572 1,445 Number. 22 82 41 62 63 504 179 51
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Friremen Laborers Shopmen Yardmen Others  BEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan.	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Friremen  Laborers  Shopmen  Yardmen  Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan oounties in which needed:  Mackinsc.	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers Bhopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  Give the number of miles required to complete fence both sides of your track in Michigan oounties in which needed: Mackinso.  Chippewa.	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 1, and the 22.24 92.05
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen  Brakemen  Conductors  Engineers  Friremen  Laborers  Bhopmen  Yardmen  Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:  Mackinso.  Chippewa  Luce  Schoolcraft	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 1, and the 22.24 45.94 86.13
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan ounties in which needed:  Mackinso.  Chippewa Luce Schoolcraft Alger Marquette	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 1, and the 22.24 92.05 46.94 36.13 51.12
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan ounties in which needed:  Mackinso.  Chippewa Luce Schoolcraft Alger Marquette	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 1, and the 22.24 45.94 86.13
Number of stations on whole line  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen  Conductors Engineers Firemen Laborers Shopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:  Mackinso Chippewa Luce Schoolcraft Alger	1,572 1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 1, and the 22.24 46.94 26.13 51.12 92.94

### Road bed and track.

Number of track sections in Michigan  Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.	5.16	180,208 153,820 315
Bridges and culverts.		
Amount of trestle work replaced with earth during the year (linear feet)		8,5861/4
		Number.
Timber culverts replaced during the year.  With iron pipe,—number  With timber,—number		6 1 5
ROLLING STOCK.		
		Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	85 9	\$469,100 00 23,500 00
Total		\$492,600 00
Number of passenger cars—12-wheel, including official cars.  Number of passenger cars—8-wheel, including official cars.  Number of express and baggage cars.  Number of box freight cars.  Number of platform cars.  Number of ore cars.  Number of conductors' way cars.  Other cars.	1 36 12 1,143 580 1,323 30 20	\$7,000 00 144,000 00 24,000 00 457,200 00 174,000 00 502,500 00 15,000 00 42,600 00
Total	8,145	\$1,858,900 00
Number of locomotives equipped with power brakes: Number of passenger train cars equipped with power brakes Number of freight cars equipped with power brakes.		71 49 629
What patterns of power brakes have you in use, and number of locomotives at 25 locomotives, Westinghouse. 28 locomotives, Westinghouse and American Steam Brake Co. 18 locomotives, American Steam Brake Co. 49 passenger cars. Westinghouse. 629 freight cars, Westinghouse.		
Are your freight cars being equipped with automatic couplers as required by of 1895, as amended by act No. 88, session laws of 1887? Yes.	act No. 147,	ession laws

What pattern or patterns have you adopted for use? Trojan (M. C. B.)

How are your passenger cars heated?

Mason & Baker heaters.

## MILEAGE, TRAFFIC, ETC.

## Train mileage.

	Entire lines. I	
Miles run by passenger trains during the year  Miles run by freight trains during the year	670,550	585,510
Miles run by freight trains during the year	761,444 64,245	585,510 654,888 64,245
Total mileage of trains earning revenue.	1,496,239	1,304,593

## Passenger traffic.—Entire lines.

Number. Miles.	Rate.
Number of through passengers carried, earning revenue	2200
Total number of passengers carried, earning revenue 388,451	
Number of passengers carried one mile 17,234,330  Average distance carried 46.775  Average amount received from each passenger 46.775  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per mile for local passengers	\$1 28.048 02.488 02 889 02.787
Passenger traffic.—In State of Michigan.	
Number of through passengers carried, earning revenue	
Total number of passengers carried, earning revenue 348,627	
Number of passengers carried one mile	\$1 22.832
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.	02.962
Water a to contrast her hassen fer in me tot am hassen fers	
Freight traffic.—Entire lines.	
Tons. Miles.	Rate-
Number of tons of through freight carried, earning revenue 505,675 Number of tons of local freight carried, earning revenue 1,832,722	
Total tons of freight carried earning revenue 2,338,397	
Total mileage of through freight	
Average ton haul for through freight 150.916 Average ton haul for local freight 19.344	
Average ton haul for all freight. 47.797	
Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average ton receipts per mile, for local freight.  Average receipts ton per mile for all freight.	\$0 55.822 00.762 02.040 01.168
Freight traffic.—In State of Michigan.	
Number of tons of through freight carried, earning revenue	
Total tons of freight carried, earning revenue	
Total mileage of through freight 64,276,708 Total mileage of local freight 32,914,024 Total freight mileage or tons carried one mile 97,190,732	
Average ton haul for through freight	
Average amount received for each ton haul  Average receipts ton per mile, for through freight.  Average receipts ton per mile for local freight.  Average receipts ton per mile, for all freight.	\$0 52.872 00.765 02.121 01.224

## FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

## Company's material excluded.

a	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture :	0.400	20.055	an mar		
Grain	3,120 31,158	29,675 18,566	32,795 49,724	1.40 2.13	
Flour Other mill products	31,155	6,200	9,777	2.13 . <b>4</b> 2	
How	2,292	21,170	28,462	1.00	
Hay Fruit and vegetables	474	10,009	10,483	.45	
Products of animals:					
Live stock	558 85	1,804 10,189	2,857 10,274	.10 .44	
Other packing house products	21	10,109	10,214	. 22	
Other packing house products  Poultry, game and fish	535	105	640	.03	
Wool		1,936	1,936	.08	
Hides and leather	58	56	109		
Products of mines:		100	7 050	~	
Anthracite coal	7,553 60,252	123 46	7,676 60,298	.38 2.58	
Coke	00,202	206	206	2.00	
Orea	1,846,355	200	1.846.855	57.58	
Ores Stone, sand, and other like articles	4,579	680	5,259	.25	
Products of forest:	444.000	10 000	104 700	<b>.</b>	
Lumber Loga	144,919 857,958	19,808 1,951	164,722 359,904	7.04 15.39	
	001,800	1,501	308,502	10.00	
Manufactures:	1 101	3,756	4.887		
Petroleum and other oils		1,490	1,520	.21	
Iron, pig and bloom	10.570	1.845	11,915	.51	
Iron and steel rails	1.856	4.037	5,898	.21	
Other castings and machinery  Bar and sheet metal	8,305	7.207	10,512	.4!	
Bar and sheet metal	164	6,919	7,083	.30	
Cement, brick and lime	1,092		4,674	.0	
Agricultural implements Wagons, carriages, tools, etc.	418	243 546	243 959	.0	
Wines lianors and hears	875	2,977	3,852		
Wines, liquors and beers Household goods and furniture	566		1,019	.0	
Merchandise	22,050	45,935	67,985	2.9	
Miscellaneous: Other commodities not mentioned above	84,095	47,714	131,809	5.6	
Total tonnage	2,089,626	248,771	2,338,397	100.00	

## FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

## Company's material excluded.

		Freight originating on this road outside	Total freight tonnage.		
Commodity.	Freight originating on this road. Whole tons.	of Michigan.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	116	81,613	31,729	1.40	
Flour Other mill products	101 31	48,960 9,319	49,061 9,350	2.16 .41	
Hav	1,774	20,858	22,332	.98	
HayFruit aud vegetables	408	10,010	10,413	.46	
Products of animals:					
Live stock		1,887	2,286	.10	
Other packing house products	85 21	10,189 48	10,274	.45	
Other packing house products Poultry, game and fish. Wool Hides and leather	535	103	640	.08	
Wool		1,882	1,882	.08	
Hides and leather	53	56	109	.01	
Products of mines:					
Anthracite coal Bituminous coal	7,451 60,288	184	7,585	. 33	
Coke	00,200	60 206	60,298 206	2. <b>6</b> 5 .01	
Ores Stone, sand, and other like articles	1,346,355		1,346,355	59.25	
Stone, sand, and other like articles	4,325	808	5,133	.23	
Products of forest:					
LumberL.) des	118,749 383,505	25,831	144,080	6.84 14.76	
	888,900	1,951	385,456	14.70	
fanufactures: Petroleum and other oils	1,021	3,779	4,800	.21	
Sugar	29	1,491	1,520	.07	
Iron, pig and bloom	10,570	1,845	11,915	.52 .26	
Iron and steel rails	1,856	4,020	5,876	. 26	
Other castings and machinery	3,093	7,004	10,097	.44	
Bar and sheet metal. Cement, brick and lime	164 701	6,562 3,616	6,726 4,817	.30 .19	
Agricultural implements	101	243	1,213	.01	
Wagons, carriages, tools, etc.	413	546	959	.04	
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture	875	2,955	3,830	.17	
Household goods and furniture	417	552	969	.04	
Merchandise	19,786	45,769	65,555	2.89	
fiscellaneous:					
Other commodities not mentioned above	71,205	47,220	118,425	5.21	
Total tonnage	1,984,021	288,469	2,272,490	100.00	

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies? Western Express Company does a general business. We receive variable amounts per month based upon the earnings of the Western Express Co. We take their freight at our depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
234.00 miles of line and 448.04 miles of wire belongs to D., S. S. & A. R'y Co.
294.70 miles of line and 843.80 miles of wire belongs to Western Union Telegraph Co.

### TRANSPORTATION COMPANIES.

### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Name of company.	General office.	Amount paid.
Wagner Palace Car Co	New York, N. Y.	\$9,125 18

## Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Merchants' Despatch Transportation Co	New York, N. Y. Rochester, N. Y. Toledo. Ohio. Chicago, Ill. New York, N. Y.	\$149 7 282 1 86 2 10 6 12 0 87 3
National Despatch Line Red Line Transit Co. Chicago Refrigerator Car Co. American Tank Line Armour Car Lines	St. Albans, Vt Buffalo, N. Y Chicago, Ill Cleveland, O Chicago, Ill	8 02 20 99 5 41 10 8 862 0
Morris & Co. Refrigerator Line Street's Stable Car Line Union Refrigerator Transportation Co. Canadian Pacific Despatch Cudahy Refrigerator Line	Chicago, Ill. Chicago, Ill. St. Louis, Mo. Boston, Mass. South Omaha, Neb.	182 02 1 03 177 60 1,471 22
Swift Refrigerator Line Hammond Refrigerator Line American Refrigerator Transit Co. Empire Line. Paragon Refining Co.	Chicago, Ili	435 87 541 66 11 65 8 81 21 36
Armour Packing Co. International Fruit Dealers' Despatch. St. Louis Refrigerator Car Line. Undahy Milwaukee Refrigerator Line Dold Packing Co.	Kansas City, Mo. Chicago, III. St. Louis, Mo. Milwaukee, Wis. Kansas City, Mo.	109 2 7 3 6 8 8 1 2
Provision Dealers' Despatch California Fruit Transportation Co. Craig Oil Line Burton Stock Car Co. Commerce Dispatch	Chicago, Ill. Chicago, Ill. Toledo, Ohio Boston, Mass. Indianapolis, Ind.	6 60 4 83 9 87 15 78
Keystone Palace Horse Car Co Anglo American Refrigerator Co	Chicago, Ill. Chicago, Ill. Lafayette, Ind. ('leveland, O. Chicago, Ill.	1 97 13 22 1 41 63 83 11 86
White Line Green Line Goodell Refrigerator Line Peavy Grain Line Manhattan Oil Co.	Buffalo, N. Y Philadelphia, Pa Chicago, Ill Minneapolie, Minn Lima, Ohio	2 19 72 92 8 30 1 88
Globe Tank Line.  New York Despatch Refrigerator Line	Marietta, Ohio	40 1 73 40 20 42 61
Bay Terminal Co	Toledo, Ohio	24 42 16 2 00 1 06

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED

February 19, Frank Smith, coal heaver, Marquette. Piece of coal weighing 700 or 800 pounds fell on him; accidental.

February 19, Jerry Donahue, brakeman, Chassell. Rear end collision; lack of caution. April 11, Geo. Adams, trespasser, Driggs. Trespasser; lack of caution.

May 1, A. Caron, laborer, Danaher. Jerked off of car under train; lack of caution.

June 10, Ed. Downey, brakeman, Negaunee. Jerked off of car under train; accidental.

July 28, A. Daglio, trespasser, Negaunee. Trespasser; lack of caution.

Aug. 21, John Norbom, trespasser, Marquette. Trespasser; lack of caution.

Aug. 31, Andrew Brandt, laborer, Trout Creek. Gravel plow tipped off car and fell on his head; accidental.

#### INJURED.

January 10, P. Lafraniere, car repairer, St. Ignace. Fell through coal hatch on transfer boat while inspecting cars; carelessness.

January 24, B. Messier, switchman, Marquette. Knocked off side of car by a pile of lumber; lack of caution.

January 22, John Osborn, transfer man, Houghton. Grindstone fell on his leg; accidental. January 18, C. Molean, brakeman, Beaufort Junction. Jumped from top of train to avoid further injury in collision; accidental.

February 18, C. Molean, carbental.

February 18, C. Azotte, switchman, Marquette. Fell off train; lack of caution.

February 19, C. Azotte, switchman, Marquette. Fell from train; accidental.

February 19, H. Fee, conductor. Chassell. Bear end collision; lack of caution.

March 18, J. McLean, carpenter, St. Ignace. Cut his foot with an ads; accidental.

March 18, J. McLean, carpenter, St. Ignace. Cut his foot with an ads; accidental.

April 20, A. Tousignaut, brakeman, Nestoria. Coupling; lack of caution.

May 12, Geo Mailhot, section foreman, St Ignace. Rail fell on his hand; accidental.

May 14, W. M. Johnson, trespasser, Newberry. Trespasser; caught foot between draw heads; lack of caution.

May 26, Martin Kork, laborer, Marquette: Fell from car into dock pocket; accidental.

March 30, P. Lavelle, brakeman, Thomaston. Coupling lack of caution.

June 17, M. Schultz, laborer, Marquette. Struck on arm with ore dock sout crank; accidental.

June 17, M. Schultz, laborer, Marquette. Struck on arm with ore dock sout crank; accidental.

July 13, L. Jones, laborer, Sault Ste. Marie. Trying to get on moving push car, his foot slipped and car passed over his leg; accidental.

July 13, L. Jones, laborer, Sault Ste. Marie. Trying to get on moving push car, his foot slipped and car passed over his leg; accidental.

July 23, M. Wallace, brakeman, Champion. Coupling; accidental.

September 21, O. Ostermeyer, brakeman, Tout Creek. Coupling; lack of caution.

December 9, O. Dolf, laborer, Marquette. Piece of iron fell on his foot; accidental.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Em ployés.	Others.
Collisions Coupling cars Falling from trains		1			3 7	
alling from trains fiscellaneous respassors on trains respassors on tracks		4	2		3 10	
Total		5	3		23	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	8
Number of persons injured during the year	26
Number of casualties purely accidental	18
Number resulting from lack of caution, carelessness or misconduct	16
Persons killed or injured while intoxicated.	2
Trespassers and tramps killed or injured	6

### CLASSIFICATION OF EMPLOYES.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Conductors	2	9	11
Laborers	2	5 3	7
Yardmen. Not classified above	1	4	5
Total	5	28	28

STATE OF MICHIGAN, SS.

COUNTY OF MARQUETTE, SS.

A. E. Delf, Auditor, of the Duluth, South Shore and Atlantic Railway Company, being duly sworn deposes and says that he have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF E. E.]

A. E. DELF. Auditor.

Subscribed and sworn to before me this 1st day of April, A. D. 1897. [L. s.]

A. E. DELF, Auditor.

CHARLES A. PAYNE.

### ANNUAL REPORT

OF THE

## FLINT & PERE MARQUETTE RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed April 28, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President. W. W. CRAPO, New Bodford, Mass.
Secretary and Treasurer, H. C. POTTER, JR., Saginaw, E. S., Mich.
Autitor, C. S. MoMILLAN, Saginaw, E. S., Mich.
General Manager, S. T. CRAPO, Saginaw, E. S., Mich.
General Superintendent, W. F. POTTER, Saginaw, E. S., Mich.
Traffic Manager, A. PATRIARCHE, Saginaw, E. S., Mich.
Chief Engineer, W. S. SEARS, Saginaw, E. S., Mich.
Superintendent of Telegraph, A. H. FOLLETT, Saginaw, E. S., Mich.
Attorneys, HANCHETT & HANCHETT, Saginaw, E. S., Mich.

## DIRECTORS.

WILLIAM W. CRAPO, New Bedford, Mass.
LOUM SNOW, New Bedford, Mass.
GEORGE COPPELL, New York City.
THOMAS F. RYAN, New York City.
J. LEWIS STACKPOLE, Boston, Mass.
R. B. DODSON, New York City.
LEWIS PIERCE, Portland, Maine.
HENRY B. STONE, Chicago, Ill.
H. C. POTTEE, Saginaw, E. S., Mich.
H. C. POTTEE, JE., Saginaw, E. S., Mich.
W. H. TOUSEY (deceased), Bay City, Mich.
Terms expire third Wednesday in May.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 31, 1880. Number of stockholders at date of last election: 1,566. Number of stockholders in Michigan at same date: 14. Amount of full paid stock held in Michigan at same date: \$58,200.00. Date of annual meeting of stockholders: Third Wednesday in May. Fiscal year of company ends December 31st. General offices of the company are located at Saginaw, E. S., Mich.

	GENERAL I	EXHIBIT.		
Makal and to be desired as a second as			Debit.	Credit.
Total earnings from operation Total expenses, including taxes		· · · · · · · · · · · · · · · · · · ·	\$1,589,198 1	\$2,118,798 12 1
Net income				±529,600 01
Interest on funded debt			\$591,106 6 22,216 6	8 4
Steemen earnings			\$613,323 3	127,378 18
Steamer earnings				1,186 46
Balance applicable to dividends				. \$44,839 30
Balance for the year				\$44,839 30
Balance (profit and loss) last year				153,815 91
Balance forward to next year				\$198,155 21
Amount authorised by charter or artic	les of associat	PITAL STOCK.		\$10,000,000 00
Par value of shares Number of shares issued Amount paid in on common.		98.402	00 00	,,
Amount paid in on common  Amount paid in on preferred.			\$3,298,200 00 6.842,000 00	) )
Amount of shares not issued, number.				
Total amount as per books of the c				10.000.000 00
Per mile of road owned by company, 73				
,		_		
ANA	LYSIS OF DE	BT ACCOUNTS.		
	FUNDED	DEBT.		
Class, character and date of issue	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Holly, Wayne & Monroe F. & P. M. 6's F. & P. M. 5's. P. H. & N. W. Div. 5's. Equipment 5's	5%	Jan. 1, 1901 Oct. 1, 1920 May 1, 1939 April 1, 1939 \$40,000 annual'y	New York City New York City New York City New York City Boston.	\$1,000,000 00 3,999,000 00 2,100,000 00 8,250,000 00 40,000 00
Total funded debt				\$10,389,000 00
	IINFIINDED DE			
				<del></del>
For what incurred.	Is the same to	o be funded or how	w liquidated?	Amount.
For miscellaneous				\$1,589,482 48
Total Annded deba	BECAPITUL	ATION.		eto ago ass as
Total funded debt			· · · · · · · · · · · · · · · · · · ·	\$10,389,000 00 1,589,482 48
Total debt liabilities				\$11,978,482 48
Amount of debt liabilities per mile of r Total amount of stock and debt Stock and debt per mile of road, 738.93	oad, 738,93 mil	08		16,210 57 21,978,482 48 29,743 66

## GENERAL BALANCE SHEET.-DR.

GENERAL BALANCE SHEET.—Dr.		
Construction account Equipment account	};	21.405.784 05
Other Investments:		,,
F. & P. M. steamers, 4. Car ferry, Pere Marquette Bay City Bolt Line R. B. stock and advances Fort Street Union Depot Stock.	\$366,320 29 286,178 72 114,840 28 250,000 00	
Bay City Belt Line R. B. stock and advances	114,840 28	
Fort Street Union Depot Stock Elevators	250,000 00 8,604 17	
		1,020,943 46
Cash items:	\$94,707.83	
Bills receivable	\$94,707 83 10,000 00	
Los trom agenta	111,161 85	215,868 68
Other assets:	<b>974 874 99</b>	•
Debit balances from companies and individuals	\$74,674 88 454,381 72 158,000 00	
Materials and supplies. Debit balances from companies and individuals F. & P. M. stock unsold (preferred) F. & P. M., common stock unsold	158,000 00 201,800 00	
7.1 to 7.1 W/ common secon ansona		888,856 60
Total		28,531,452 79
GENERAL BALANCE SHEET.—Cr.		
Capital stock		\$10,000,00,00
Funded debt		10,389,000 00
Unfunded debt: Interest unpaid, not due	\$118,448.80	
Notes payable	\$118,443 30 824,964 78 842,591 39	
Vouchers and accounts		
State tax payable July, 1897 State tax payable July, 1897 Monroe & Toledo R. R. bills payable Pere Marquette Trans. Co. bills payable Property renewals	45,103 52	
Pere Marquette Trans. Co. bills payable	86,500 00	
Property renewals.	43,516 78	1,589,482 48
Profit and loss or income accounts	••••••	1,552,970 31
Total		28,581,452 79
COST OF BOAD AND EQUIPMENT.		
	npany.	
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con		21.405.784.03
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con		21,405,784 03 28,978 82
COST OF BOAD AND EQUIPMENT.		21,405,784 03 28,978 82 21,405,784 05
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con		21,405,784 03 28,978 82 21,405,784 05
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con		21,405,784 03 28,978 82 21,405,784 05
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan		21,405,784 03 28,978 82 21,405,784 05
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment	YEAR.	
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Boadway and structures.	YEAR.	\$19,240 94
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment	YEAR.	\$19,240 94 7,648 14
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Boadway and structures.	YEAR.	\$19,240 94
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land  Total charges to property account as above.	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land.  Total charges.	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land.  Total charges to property account as above. Net addition to property account.	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land  Total charges to property account as above.	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land  Total charges  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches:	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment	YEAR.  YEAR.  N.  \$541,517 06	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land.  Total charges Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares. Through fares.	YEAR.  YEAR.  \$541,517 06 51,732 01	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land  Total charges  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares  Through fares  Total passenger fares	\$541,517 06 51,752 01 \$593,289 07	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures Land  Total charges Total charges to property account as above Net addition to property account  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares  Express and bassage.	\$541,517 06 51,752 01 \$593,269 07	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land  Total charges  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares  Through fares  Total passenger fares	\$541,517 06 51,752 01 \$593,289 07	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares  Through fares  Total passenger fares  Express and baggage Mails Other sources.	\$541,517 06 51,752 01 \$593,269 07 51,639 82 66,926 15 18,138 43	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares  Through fares  Total passenger fares  Express and baggage.  Mails  Other sources.  Total passenger department earnings	\$541,517 06 51,732 01 \$593,269 07 51,639 82 66,926 15 18,138 43	\$19,240 94 7,648 14 \$26,889 08 26,889 08
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by con Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Roadway and structures. Land.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER EARNINGS.  Main line and branches: Local fares  Through fares  Total passenger fares  Express and baggage Mails Other sources.	\$541,517 06 51,752 01 \$593,269 07 51,639 82 66,926 15 18,138 43	\$19,240 94 7,648 14 \$26,889 08 26,889 08

· FREIGHT BARNINGS.		
Main line and branches: Local traffic Through traffic.	\$968,400 43 418,452 50	
Total traffic		\$1,386,852 93
Total freight department earnings		\$1,386,852 93
Per train mile	\$1 18 1,819 42	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGER BARNINGS.		
Main line and branches: Local fares Through fares	\$542,036 83 51,803 67	
Total passenger fares		\$393,860 00
Express and baggage	\$51,639 82 68,926 15 18,138 43	
Total passenger department earnings		\$780,564 40
Per train mile	\$0 <b>69</b> 958 85	•
FREIGHT EARNINGS.  Main line and branches: Local traffic	\$989,364 60	
Local traffic Through traffic	418,869 12	
Total traffic.		1,388,283 72
Total freight department earnings		\$1,388,283 72
Per train mile Per mile of road	\$1 19 1,819 55	
Total transportation earnings, entire line Transportation earnings per mile of road, 762.96 miles Transportation earnings per train mile, 2,231.282 miles.	2,777 07 <b>95</b>	\$2,118,798 12
Total earnings from operation of road		\$2,118,798 12
Total earnings per mile of road, 762.96 miles	\$2,777 07 95 2,116,828 40 2,777 08	
Net steamer earnings Rents of tenements		127,878 18 1,186 46
Total income from all sources		\$2,247,357 71
Proportion of income for Michigan,		2,245,385 99
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway. Renewals of rails Renewals of teles Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing.  Total		\$196,843 17 600 00 71,234 29 12,292 12 14,133 82 29,507 76 985 52 2,083 59 202 76 \$327,893 08

MAINTENANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars. Repairs and renewals of shop machinery and tools. Stationery and printing. Other expenses.	1,476 84
Total	\$214,809 04
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service Station service Station service Station supplies Switching charges—balance Car mileage—balance—Cr. Loss and damage. Injuries to persons Clearing wrecks Advertising Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses	\$18,300 94 160,114 08 158,053 10 12,298 40 4,572 10 1,705 08 139,817 68 23,939 72 66,884 08 18,873 84 177,173 28 14,566 18 4,924 81 4,924 81 7,904 70 5,981 47 1,232 98 6,933 10 28,29 41 66,174 00 224 24 11,740 61 1,517 82
Total	<b>\$921,499</b> 71
GENERAL EXPENSES.	
Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices). Other expenses Taxes	\$21,349 92 29,471 82 5,197 40 7,021 68 3,475 83 1,777 31 8,054 13 48,648 79 \$124,996 33
RECAPITULATION OF EXPENSES. Per cent o	
Maintenance of way and structures     20.63       Maintenance of equipment     13.52       Conducting transportation     57.98       General expenses, including taxes     7.87	\$327,893 03 214,809 04 921,499 71 124,996 33
	\$1,589,198 11
Operating expenses and taxes per mile of road, 762.96 miles	1,587,719 23 694 14 24

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Monroe to Ludington, December 1, 1874.
From Manistee Junction to Manistee, June 2, 1882.
From City of Saginaw to City of Saginaw, Belt Line, June 16, 1889.
From Port Huron to Sand Beach, Sept. 13, 1880.
From Port Huron to Saginaw, February 22, 1882.
From Port Huron to Almont, Oct. 3, 1882.
From Palms Junction to Port Austin, December 11, 1882.
From Port Austin to Grindstone City, July 31, 1892.

In Michigan, from Monroe or Raisin to Ludington	<b>M</b> iles. 249. <b>3</b> 4	Miles.
Total length completed		249.84
Branches.		
Monroe branch	2.97 8.67	
Flint River Division	19.51	
Flint River Division  Bay City Division and branches.	16.28	
Bay City Loop Line	8.02 1.57	
Crow Island Branch	16.75	
Saginaw Belt	9.84	
Zilwaukee Branch	6.33 3.89	
West Shore Branch	22.32	
Mt. Pleasant Division  Hoyt North and South Branch.	14.78	
Hoyt North and South Branch	18.33 85.74	
Harrison Divi-ion	28.55	
Star Lake Branch Manistee Division and Branches	29.73	
Eastern Division	90.30	
Sand Beach Division, 3 ft. gauge Port Austin Division, 3 ft. gauge	70.18 <b>89.9</b> 8	
Almont Division	33.91	
Almont Division	18.44	
Total length of branches owned by company		486.09
Total length of branches owned by company in Michigan  Total length of road belonging to this company	486.09	735.43
Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs, and other tracks not above en	735.43	177.81
Aggregate length of tracks in Michigan belonging to this company, comput	ed as single	918.24
track		
Gauge of track, 3 feet, 157.04 miles.		
Proprietary or leased roads operated by this company.		
	otal miles.	In Michigan.
		_
	3.24 1.36	3.24 1.36
	8.24 1.36 11.63	3.24 1.36 11.68
	3.24 1.36 11.63 8.09	3.24 1.36
	3.24 1.36 11.63 8.09 26 18.72	3.24 1.36 11.63 8.09 26 18.00
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.	3.24 1.36 11.63 8.09	3.24 1.36 11.68 8.09 26 18.00
	3.24 1.36 11.63 8.09 26 18.72	3.24 1.36 11.63 8.09 26 18.00
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66	3.24 1.36 11.68 8.09 26 18.00
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G.R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company	3.24 1.36 11.63 8.09 26 18.72 4.93	3.24 1.36 11.68 8.09 26 18.00 42.58 778.01
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line.  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66	3.24 1.36 11.68 8.09 26 18.00 42.58 778.01
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66	3.24 1.38 11.68 8.09 26 18.00 42.58 778.01 ————————————————————————————————————
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number.	3.24 1.36 11.63 8.09 25 18.00 42.58 778.01 ————————————————————————————————————
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number.	3.24 1.35 11.83 8.09 26 18.00 42.58 778.01 Aggregate length feet. 6231/4 3,7283/4
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination.  Wooden trestles.	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	3.24 11.86 11.63 8.09 26 18.00 42.58 778.01 Aggregate length feet. 628½ 8,728¾ 939 15,590½
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number.	3.24 1.35 11.83 8.09 26 18.00 42.58 778.01 Aggregate length feet. 6231/4 3,7283/4
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination.  Wooden trestles.	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	3.24 11.86 11.63 8.09 26 18.00 42.58 778.01 Aggregate length feet. 628½ 8,728¾ 939 15,590½
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination  Wooden trestles.  Total	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 11.86 11.63 8.09 26 18.00 42.58 778.01 Aggregate length feet. 628½ 8,728¾ 939 15,590½
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron Combination  Wooden trestles  Total  Draw bridges in Michigan.	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 1.38 11.68 8.09 26 18.00 42.58 778.01 Aggregate length feet. 6234, 8,7284 939 15,590%
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination  Wooden trestles  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span:  One at Saginew built in 1893 iron	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 11.35 11.63 8.09 26 18.00 42.58 778.01 ————————————————————————————————————
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination  Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span: One at Saginaw, built in 1893, iron. One at Saginaw, built in 1893, iron. One at Saginaw, built in 1893, iron.	8.24 11.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	3.24 1.38 11.68 8.09 26 18.00 42.58 778.01 Aggregate length feet. 6234, 8,7284 939 15,590%
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron.  Combination.  Wooden trestles.  Total  Draw bridges in Michigan.  Where located, when built, and length of draw span:  One at Saginaw, built in 1893, iron.  One at Saginaw, built in 1893, iron.  One at Saginaw, built in 1893, iron.  One at South Saginaw, built in 1893, iron.  One at South Saginaw, built in 1893, iron.	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 1.35 11.85 18.09 26.18.00 42.58 778.01 Aggregate length feet. 623½ 3,728½ 20,881¾ 4 Feet. 168 142 189
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit Terminal, 18th Street to Fort Street.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination  Wooden trestles  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span:  One at Saginew built in 1893 iron	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 1.38 11.68 8.09 26 18.00 42.58 778.01 ————————————————————————————————————
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination  Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span:  One at Saginaw, built in 1893, iron.  One at South Saginaw, built in 1893, iron.  One at Port Huron, built in 1892, iron.  Character of structure:	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 1.35 11.85 18.09 26.18.00 42.58 778.01 Aggregate length feet. 623½ 3,728½ 20,881¾ 4 Feet. 168 142 189
Name, description, and length of each:  Detroit Terminal, Delray to 18th Street.  Detroit Terminal, 18th Street to Fort Street.  Detroit G. R. & Western, Plymouth to Redford.  Bay City Belt Line  Bridge Junction to West Bay City, D. & M. R'y.  Monroe & Toledo, Raisin to Alexis  Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges  Iron  Combination  Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span:  One at Saginaw, built in 1893, iron.  One at South Saginaw, built in 1893, iron.  One at South Saginaw, built in 1894, iron.  One at Port Huron, built in 1892, iron.  Character of structure:  Pratt truss.	8. 24 11. 36 11. 63 8. 09 26 18. 72 4. 93 48. 23 783. 66 Number. 10 29 9	3.24 1.35 11.85 18.09 26.18.00 42.58 778.01 Aggregate length feet. 623½ 3,728½ 20,881¾ 4 Feet. 168 142 189
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Height above water, and depth of water under bridge: 12 to 16 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved?
Two straight, two curved.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled? Yes, until signaled by hand.

## Crossings.—Railroad and highway.

o, outlings. Lawrence and inglitary.	
What railroads cross your road at grade in this State and at what locality? Lake Shore & Michigan Southern R. B. at Carlton, Delray and Moarce. Wabash R. R. at Somulus and Delray. Michigan Central R. B. at Saginaw Junction, Vassar, Otter Lake, Saginaw, W. S., Mersho	n, Bay City
Wabash R. R. at Romulus and Delray.  Michigan Central R. R. at Saginaw Junction, Vassar, Otter Lake, Saginaw, W. S., Mersho 3 times, Delray twice.  Detroit, Grand Rapids & Western R. R. at Plymouth.  Chicago & Grand Trunk R. R. at Flint, G. T. Junction, Port Huron.  Detroit, Grand Haven & Milwaukee R. R. at Holly.  Cincinnati, Saginaw & Mackinac R. R. at Saginaw, Mershon.  Ann Arbor R. R. at Clare.	
Grand Rapids & Indiana R. R. at Reed City.  Manietee & Luther B. R. at East Lake. Chicago & West Michigan R. R. at Baldwin. Manietee & North Eastern R. R. at Manietee. Pontiac, Oxford & Northern R. R. at Clifford. Midland & Northern R. B. at Midland Grand Trunk R. R. at Wixom, G. T. Junction, Port Huron twice.	
What railroads cross your road either over or under your grade in this State, and where? Over: Manistee & Grand Rapids R. R. at Stronach. Under:	
Michigan Central R. R. at Springwells and Detroit.	
At what crossings are interlocking and derailing switches in operation?  Michigan Central—Mershon, Wayne, Delray, Saginaw 3 places, Bay City 3 places. Cincinnati, Saginaw & Mackinaw—Saginaw 3 places, Mershon. Ann Arbor—Clare. Chicago & West Michigan—Baldwin.	
Chicago & Grand Trunk and Grand Trunk—Grand Trunk Junction, Port Huron. Wabash and Lake Shore & Michigan Southern—Delray. Wabash—Romeline	
Midland & Northern—Midland. Manistee & Luther—East Lake. Manistee & North Eastern—Manistee. Lake Shore & Michigan Southern—Monroe.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings at which there are electric or automatic signals.	862 36 4
What pattern or patterns in use? O'Neil's electric.	
Number of crossings of highways over or under railroad: over, 3; under, 9 Number of highway bridges, 18 feet above track	12 8
Have safety guards been erected at overhead obstructions? Yes. Are your frogs and guard rails blocked as required by act 174, Session Laws of 1883?	
Yes.	
How are they treated?  Block, and the Hart guards.  Stations.	
Number of stations on whole lines	189
Same in Michigan	138
Employés,	
Mile progress	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	2,077 2,065
Classify your employés as per following list:	Number.
Baggagemen	22 121
Conductors Engineers	65 92 97
Firemen Laborers	97 836
Shopmen.	211
Yardmen	78 555

## BEPAIRS AND RENEWALS.

## Fencing in Michigan.

	e you!			724%
Give the number of miles required counties in which needed:	ired to complete fence	both sides of y	our track in Michi	gan, and the
Midland Isabella Clare Gladwin Lake Mason Manistee Huron				11/4 73/4 53/4 11 14 7 4 21/4
Total miles required		·		561/2
	Road bed and	track.		
Number of track sections in Mi Average lengths of sections, mi Average number of men in each Number of new ties put in who Number of new ties put in track Average number of new ties per	les  section gang  le line during the year  k in Michigan	· · · · · · · · · · · · · · · · · · ·		7.87 4 897,567 397,567
	Bridges and c	ilverts.		
Timber culverts replaced durin With Iron pipe With sewer pipe New bridges built during the y	g the year:	•••••		
With iron pipe	g the year:	•••••		24

### ROLLING STOCK.

ROLLING STOCK.		
		Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	91 10	\$574,500 00 45,000 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender	. 10 2	5,000 00
		<del></del>
Total	103	\$624,500 00
Number of passenger cars-12-wheel, including official cars	. 4	\$28,050 00
Number of passenger cars—8-wheel, including official cars	. 89	157,250 00
Number of express and baggage cars	. 24	18,950 00
Number of box freight cars	1,729	845,800 00
Number of stock cars. Number of platform cars "flats"	. 44	7,920 00
Number of platform cars "flats"	. 1,158	172,950 00
Number of conductors' way cars.	. 46	9,200 00
Other cars as follows:	_	
Charcoal 5		
Coal 23 Furniture 7		
Refrigerator 1 Boarding		
Log 7		
	Ř	
Painters	2	
Excavators	2	
Pile driver	1	
	2	
Derrick	1	
	į	
	1	
Water supply Bridge material	8	
Dridge maverial	476	117,000 00
Total	. 8,565	\$837,120 00
N 1 41 41 41 41 41 41 41 41 41 41 41 41 4		63
Number of locomotives equipped with power brakes		117
Number of freight cars equipped with power brakes		111
number of Residue care edutabed with bower orange		
67h - t - stand of seven bashes have you in you and number of leasurations and		anah 0
What patterns of power brakes have you in use, and number of locomotives and Westinghouse air brakes. 182.	CHLR MICH	each!
40 engines equipped with steam driver and tender brake.		
63 engines equipped with Westinghouse air brakes.		

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould.

How are your passenger cars heated? Baker & Smith hot water.

## MILEAGE TRAFFIC, ETC.

All in Michigan,
1,020,704 1,122,794 87,784
2,231,282
Rate.
\$0 60.7054 01.952 02.128
02.112

## Freight traffic.—Road all in State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	575,748 1,090,130		
Total tons of freight carried, earning revenue	1,605,878		
Total mileage of through freight		109,119,561 79,885,831	
Total freight mileage or tons carried one mile		188,005,392	
Average ton haul for through freight		187.7897 77.5492	
Average ton haul for all freight		117.0732	
Average amount received for each ton haul			\$0 86.854 00.386 01.210 00.787

## FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

## Company's material excluded.

0	Freight originating	Freight received from connecting	Total freight tonnage.	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain		93,920	155,517	9.69
Flour	11,886	157,100	168,486	10.50
Other mill products Hay Fruit and vegetables	6,325	45,338	51,663	3.22
Hay	57,014 6,504	12,489 5,372	69,543 11,876	4.32
Potatoes	36,589	1,899	38,488	.74 2.40
Products of animals:				
Live stock	18,641	3,376	22,017	1.37
Dressed meats Poultry, game and fish	1,099	1,370	2,469	.16
Poultry, game and fish	1,067	574	1,641	.10
Wool Hides and leather	571 1,653	2, <b>64</b> 8	620 4,301	.04 .27
Products of mines:		Ì .		
Anthracite coal	E 400	E9 047	58,780	3.66
Bituminous coal	5,688	53,047		
Stone, sand and other like articles	42,075	8,911	45,986	2.87
Salt	70,625	164	70,789	4.41
Products of forest: Lumber	241,486	22,057	263,523	16.41
Logs	134.830	22,00	184,830	8.40
Shingles	16,196	3,990	20,186	1.26
Manufactures:				••
Petroleum and other oils	5,874	9,048 7,929	14,422	.90
Other castings and machinery Cement, brick and lime	7,566 12,376	1,929 5,995	15,495 18,371	.97 1.15
Agricultural implements	12,376 617	1,638	2,270	.14
Wagona carrieges tools ato	2,394	960	3,354	.21
Wines lignors and beers	2,323	2,651	4.974	.31
Household goods and furniture	6.680	2,266	8,946	.56
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture Other manufactures	40,175	18,986	59,161	3.69
Merchandise	89,922	77,519	162,441	10.13
discellaneous: Other commodities not mentioned above	. 164,608	81,211	195,819	12.13
Total tonnage	1,040,356	565,522	1,605,878	100 00

### ADDITIONAL QUESTIONS.

## Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Arms' Palace Horse Car Co. American Refrigerator Transit Co. Armour Refrigerator Line. American Tank Line. American Live Stock Transit Co.	Chicago, III.	\$7 77 56 29 67 69 2 04 5 07
Burton Stock Car Co	Chicago, Ill. Chicago, Ill. Cincinnati, Ohio Indianapolis, Ind. Chicago, Ill.	125 04 5 60 3 29 17 42 18 04
Canada Cattle Car Co. Chicago Refrigerator Car Lines Chicago & New York Refrigerator Continental Fruit Express California Fruit Express	Chicago, Ill.	60 60 982 51 5 15 29 11 7 70
Undahy Milwaukee Befrigerator Line Cleveland Provision Company Cottolene Refrigerator Line California Fruit Transportation Co. Cold Blast Transportation Co.	Cleveland, Ohio	86 1 47 2 91 21 59 73
Anglo-American Provision Co Dold, J., Packing Co Detroit Iron Furnace Co. Goodell Refrigerator Line. Hicks Stock Car Co.	Chicago, III	1 55 1 92 1 42 2 12 14 24
Hammond Refrigerator Line Holmes & Adams Hodgeman, G. B. & Co. Heins, H. J. Heins Pickle Refrigerator Line	Hammond, Ind	65 41 1 74 6 87 3 38
International Fruit Dealers' Despatch J. E. B. Furniture. Jackson, Sharp & Co. Kansas (ity Milling Co. Kingan Befrigerator Line	Chicago, Ill.	1 55 11 21 8 88 39 4 05
Kansas City Dressed Beef Line		4 87 70 35 3 06 3 99 3 82
Mather Stock Car Co	Chicago, Ill. New York City, N. Y. Chicago, Ill. Cleveland, Ohio	87 29 2,926 31 11 66 7 44 5 22
New England Car Co	Boston, Mass St. Albans, Vt Chicago, Ill Buffalo, N. Y Cleveland, Ohio	71 28 492 61 15 82 4 61 18 90
Paragon Refining Co. Peorless Tank Line Producers' Oil Co. Provision Dealers' Despatch R. Foggan	Toledo, Ohio	112 35 84 26 8 48 2 24 8 45
Rock Falls Manufacturing Co. Railway Car Association Refrigerator Line Southern Iron Car Line Steets Western Stable Car Co. Somers Coal Co.	Chicago, Ill. Lafayette, Ind. Atlanta, Ga. Chicago, Ill.	76 1 75 24 20 47 71 8 60

### Fast freight lines.—Continued.

Name of Company.	General office.	Amount paid.
Sun Oil Line (Bay Terminal Railway) Swift Refrigerator Line St. Charles Car Co. Shippers' Refrigerator Line South Rastern Line	Toledo, Ohio	197 57 3 08 4 13
St. Louis Refrigerator Car Co. Southern Despatch Lumber Co. Union Refrigerator Transit Co. Union Tank Line. W. P. Rend & Co.	St. Louis, Mo Louisville, Ky St. Louis, Mo New York City, N. Y	83 33 8 47 85 62 785 01
Wells & Clear Western Rolling Stock & Equipment Co. White Star Transportation Co. Weaver-Getz Co.	Lansing, Mich. Chicago, Ill. Indianapolis, Ind. Chicago, Ill.	138
Total		\$6,687 52

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co., pays \$42,000 per annum; general express business; handles its own freight.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Western Union Telegraph Co., 587.36 miles.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### KILLED.

January 15th, Wm. Tuck, farmer, Cottrell's Crossing, Vassar. Trespasser; company not responsible; his own carelessness.
February 4th, Alex. Fowles, switchman, Saginaw Yard. Coupling cars; purely accidental.
March 23, Wm. Turner, Mayville. Trespasser; his own carelessness.
March 23, F. Madison, conductor, Flint. Coupling cars; purely accidental.
May 2, C. M. Beid, brakeman, Coleman. Thrown from car No. 7, run over; purely accidental.
June 27, Chas. Leaher, Redford Junction. Trespasser; company not responsible; his own carelessness.
July 17, Chas Wright, Bay City. Highway collision; lack of caution on his part; company not responsible.
July 17, July 10, D. Pew and wife, farmer, Novi. Highway collision; lack of caution; company not responsible.
July 20, Jacob Murch, Saginaw. Trespasser; his own carelessness.
August 22, Hannah Maxwell and child, Lansing Siding. Trespasser; their own carelessness.
September 18, Thos. Brown, deaf mute, Mt. Pleasant. Trespasser; his own carelessness.
October 8, Jas. Welch, Mt. Morris. Trespasser; his own carelessness.
November 17, Deaf mute, name not learned, Detroit. Trespasser; his own carelessness.
December 29, Unknown man, Manistee Junction. Trespasser; his own carelessness.

## INJURED.

June 3, Geo. Hartman, sectionman, Juniata. Fell from car and both legs cut off; purely accidental. July 1, Herman Parish, Bay City. Highway collision; from lack of caution on his part.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Killed.			Injured.			
Causes of accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars Falling from trains Highway crossings Trespassers on tracks		2 1			i	1
Total		8	10		1	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	16
Number of persons injured during the year	2
Number of casualties burely accidental	4
Number resulting from lack of caution, carelessness, or misconduct	4
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured	7
Suicides	Z

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen	1 1	1	1 1 1 1
Total	8	1	4

STATE OF MICHIGAN, Ss.

COUNTY OF SAGINAW, Ss.

S. T. Crapo, General Manager, and C. S. McMillan, Auditor of the Flint & Pere Marquette Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

S. T. CRAPO, General Manager.

C. S. McMILLAN, Auditor.

Subscribed and sworn to before me this 26th day of April, A. D. 1897.

EDWIN F. SAUNDERS, Notary Public in and for Saginaw Co., Mich.

### ANNUAL REPORT

#### OF THE

## GOGEBIC & MONTREAL RIVER RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 9, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, EDWIN H. ABBOT, Boston, Mass.

Vice President, FREDERICK ABBOT, Milwaukee, Wis.

Secretary, HOWARD MORRIS, Milwaukee, Wis.

Auditor, ROBERT TOOMBS, Milwaukee, Wis.

Treasurer, EDWIN H. ABBOT, Boston, Mass.

General Manager, H. F. WHITCOMB, Milwaukee, Wis.

General Superintendent, S. J. COLLINS, Milwaukee, Wis.

Division Superintendent, A. R. HORN, Stevens Point.

Chief Engineer, R. B. TWEEDY, Milwaukee, Wis.

Superintendent of Telegraph, P. W. DREW, Milwaukee, Wis.

Cashier, W. R. HANCOCK, Milwaukee, Wis.

General Passenger Agent, J. C. POND, Milwaukee, Wis.

General Freight Agent, J. C. McKINNON, Milwaukee, Wis.

Attorney, T. H. GILL, Milwaukee, Wis.

Receivers, H. F. WHITCOMB and HOWARD MORRIS, Milwaukee, Wis.

### DIRECTORS.

EDWIN H. ABBOT, Cambridge, Mass, FREDERICK ABBOT, Milwaukee, Wis. THOMAS H. GILL, Milwaukee, Wis. JOHN MARTIN, Milwaukee, Wis. HOWARD MORRIS, Milwaukee, Wis. Terms expire January 20, 1897.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 27, 1883.
Number of stockholders at date of last election: 6.
Date of annual meeting of stockholders: First Wednesday after third Tuesday in January.
Fiscal year of company ends June 30.
General offices of the company are located at Milwaukee, Wis.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$46,704 80
Total expenses, including taxes	\$42,617 79	
Net income.		\$4,087 01
Balance for the year Balance (profit and loss) last year	\$527 <b>8</b> 8	\$4,087 01
Balance forward to next year		\$3,559 68

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Branches.	Extensions and new sidings.	New buildings.	New fences.	Total.
Tilden Mine	\$8,420 71 1,638 42 4,341 63 158 92		<b>\$73 18</b>	\$8,493 89 1,638 42 4,841 68
Palms Mine	4,841 68 158 92			4,841 68 158 92
Palms Mine Standard Oil Co., Bessemer Gogebic Lumber Co., Ironwood	1 218 10	\$49 90		218 10
Ironwood		\$49 90		49 90
Total charges	\$14,772 78	\$49 90	\$73 18	\$14,895 86
Total charges to property account as above				\$14,895 96 14,895 96
ANALYSIS OF EARNINGS.—ROAD A  PASSENGER EA  Main line and branches: Local fares Through fares	BNINGS.		\$2,770 60 1,470 00	
Total passenger fares		-	\$4,240 60	
Express and baggage			597 71 816 29	
Total passenger department earnings		-		\$5,154 60
Per train mile Per mile of road			\$0 27 316 23	
Main line and branches:	NINGS.			
Local traffic Through traffic			\$889 74 40,520 21	
Total traffic	·		\$41,359 95	
Other sources, freight department			148 45	
Total freight department earnings	· · · · · · · · · · · · · · · · · · ·			41,508 40
Per train mile Per mile of road			\$2 46 2,546 58	
Total transportation earnings, entire line				\$46,663 00
Transportation earnings per mile of roadTransportation earnings per train mile			\$2,862 76 1 30	
Miscellaneous receipts from operating account, other tion, as follows:		-		
From rents of tracks, yards and terminals From other sources	<del></del>		41 78 07	
Total		- 		46,704 80
Total earnings from operation of road			\$46,704 80 2,865 32 1 30 46,704 80 2,865 32	
Proportion of income for Michigan				\$46,704 80

## ANALYSIS OF EXPENSES.

## MAINTENANCE OF WAY AND STRUCTURES.

Pension of roadway	80 100 01
Repairs of roadway	<b>\$</b> 3,106 91
Renewals of rails	361 63
Kenewals of ties.	623 26
Repairs and renewals of bridges and culverts	4,640 66
Repairs and renewals of fences, road crossings, signs and cattle guards.	51 36
Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of telegraph.  Other expenses	51 36 751 76 37 77
Repairs and renewals of telegraph	37 77
Other expenses	184 59
~ · · · · · · · · · · · · · · · · · · ·	100 00
Total	\$9,757 94
	40,107 05
MAINTENANCE OF EQUIPMENT.	
Superintendence	\$110 80
Repairs and renewals of locomotives.	1,685 52
Repairs and renewals of passenger cars	392 83
Repairs and renewals of freight cars	3,340 08
Repairs and renewals of work cars	127 41
Repairs and renewals of shop machinery and tools	203 41
Superintendence Repairs and renewals of locomotives. Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools.	
Total	\$5,860 05
CONDUCTING TRANSPORTATION.	
Superintendence	\$261 25
Engine and roundhouse men	4 537 01
Fuel for locomotives	4,179 54
Water supply for locomotives	304 19
Water supply for locomotives	134 65
Other supplies for locomotives	29 04 2,537 02
Train service	2.537 02
Train supplies and axpenses	557 19
Train supplies and expenses. Switchmen, flagmen and watchmen	1,715 86
Telegraph expenses.	1,121 55
Station service.	3,648 17
Station convolice	105 89
Station supplies	195 82 439 94
Var mirage—balance	260 67
Loss and damage.	200 01
injuries to persons	283 88 66 00
Injuries to persons Clearing wrecks Advertising	100 UU
Advertising	401 00
A	164 65
Outside agencies	164 65 1,234 37
Cutside agencies	164 65 1,234 37 145 80
Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property	164 65 1,234 37
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.	164 65 1,234 37 145 80 201 98
Cutside agencies	164 65 1,234 37 145 80
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.	164 65 1,234 37 145 80 201 98
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General Expenses.	164 65 1,234 37 145 80 201 98 \$22,018 58
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General Expenses.	164 65 1,234 37 145 80 201 98 \$22,018 58
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,216 22
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,216 22 321 70
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,216 22 201 98 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,216 22 \$21 70 156 97 164 56
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,236 97 145 80 201 98 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,236 97 145 80 201 98 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers.	\$1,239 59 1,236 97 164 65 553 60 170 23
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Total.  Total.  RECAPITULATION OF EXPENSES.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes.  Total.  RECAPITULATION OF EXPENSES.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes.  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes.  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes.  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures.  Maintenance of equipment.  13.75	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35 \$4,981 22
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices).  Other expenses.  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures. 22.90 Maintenance of equipment. 13.76 Conducting transportation.	\$1,239 59 \$1,239 59 \$22,018 58 \$22,018 58 \$1,239 59 \$1,216 22 \$21 70 \$156 97 \$164 56 \$553 90 \$1,158 35 \$4,981 22 \$9,757 94 \$5,890 07 \$22,018 58
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes.  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures.  Maintenance of equipment.  13.75	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35 \$4,981 22
Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property  Total  General Expenses.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation General expenses, including taxes 11.69	\$1,234 37 145 80 201 98 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22
Outside agencies.  Rents for tracks, yards and terminals.  Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices).  Other expenses.  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures. 22.90 Maintenance of equipment. 13.76 Conducting transportation.	\$1,239 59 \$1,239 59 \$22,018 58 \$22,018 58 \$1,239 59 \$1,216 22 \$21 70 \$156 97 \$164 56 \$553 90 \$1,158 35 \$4,981 22 \$9,757 94 \$5,890 07 \$22,018 58
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures. Maintenance of equipment. 13. 75 Conducting transportation. 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 98 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22 \$9,757 94 5,860 05 22,018 58 4,981 22 \$42,617 79
Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses.  Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures. Maintenance of equipment. 13. 75 Conducting transportation. 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 98 \$22,018 58 \$1,236 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35 \$4,981 22 \$9,757 94 5,860 03 22,018 58 4,981 22 \$42,617 79 \$2,614 58
Outside agencies. Rents for tracks, yards and terminals Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 00 170 23 1,158 35 \$4,981 22 \$9,757 94 5,890 02 22,018 58 4,981 22 \$42,617 79 \$2,614 58
Outside agencies. Rents for tracks, yards and terminals Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 98 \$22,018 58 \$1,236 59 1,216 22 321 70 156 97 164 56 553 60 170 23 1,158 35 \$4,981 22 \$9,757 94 5,860 03 22,018 58 4,981 22 \$42,617 79 \$2,614 58
Outside agencies. Rents for tracks, yards and terminals Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 88 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22 \$9,757 94 5,850 05 22,018 58 4,981 22 \$42,617 79 \$2,614 58 118 41 42,617 79
Outside agencies. Rents for tracks, yards and terminals Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22 \$9,757 94 5,890 05 22,018 58 4,981 22 \$42,617 79 \$2,614 58 118 41 42,617 79
Outside agencies. Rents for tracks, yards and terminals Rent of buildings and other property.  Total.  General Expenses.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation 51.66 General expenses, including taxes. 110.00	\$1,234 37 145 80 201 88 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22 \$9,757 94 5,850 05 22,018 58 4,981 22 \$42,617 79 \$2,614 58 118 41 42,617 79
Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property  Total  General Expenses.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures Maintenance of equipment 13.75 Conducting transportation General expenses, including taxes 11.69	\$1,234 37 145 80 201 98 \$22,018 58 \$22,018 58 \$1,239 59 1,216 22 321 70 156 97 164 56 553 90 170 23 1,158 35 \$4,981 22 \$9,757 94 5,890 05 22,018 58 4,981 22 \$42,617 79 \$2,614 58 118 41 42,617 79

## DESCRIPTION OF ROAD.

Date when the road was opened	l for use between its present termini:
From Ironwood to Bessemer,	June 6, 1887.

MAIN LINE.	Miles.
In Michigan, from Ironwood to Bessemer	6.86
BRANCHES.	
In Michigan, from Spurs to Mines.	9.44
Total length of road belonging to this company in Michigan	16.30 13.12
Aggregate length of tracks in Michigan belonging to this company, computed as single track	29.42
Gauge of track, 4 feet 81/4 inches.	
Number of bridges and treatles in Michigan.	
Number.	Aggregate Length, feet.
Wooden bridges 5 Iron bridges 2	1,487.6 227.0
Iron bridges     2       Combination bridges     2	150.5
Total	1,865.1
	: =====
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? C. & N. W. R. R. at Bessemer. C. & N. W. R. N. at Palms Mine. Twin City Street R. R. at Ironwood.	,
What railroads cross your road either over or under your grade in this State, and where? Under:	
C. & N. W. R. R. at Ironwood. C. & N. W. R. R. at Siemens. C. & N. W. R. R., at Bessemer. D. S. S. & A. R. R. west of Bessemer.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen.	5
Have safety guards been erected at overhead obstructions? Yes.	
Stations.	
Number of stations on whole lines	. 2
$Employ\'es.$	
Number of persons regularly employed on all roads operated by company, including officials	28
Classify your employés as per following list:	Number.
Brakemen	. 2
Conductors Engineers	2 2 2 2 2 2 10 10 4
Piremen	
Laborers. Shopmen	. 10
YardmenOthers	:
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you	. 337
•	

## Road bed and track.

	Rodd oed and			
Number of track sections in Mich Average lengths of sections, mile Average number of men in each in Number of new ties put in track Average number of new ties per in New rails put in track.	section gang in Michigan nile of road			3 5.26 4 2,630 161 236 1.34
Steel (tons 58 0040-2240) miles Total miles of track laid with ne	w rails			.67
	Bridges and cu	ilverts.		
Amount of trestle work replaced	with earth during the	year (linear feet)		28.8
New bridges built during the year	r—number 2.			
				<del></del>
Location. Kind. Material. Month built.				
Siemens	Riveted truss	Steel	July	125.0
Bessemer	Riveted truss	Steel	July	- 102.0
Miles run by passenger trains du	MILEAGE, TRAF	age.		Michigan. 19,0 <b>9</b> 3
Miles run by passenger trains du Miles run by freight trains durin	the year			16,899
Total mileage of trains earning revenue			35,992	
P	ussenger traffic.—In Sto	rte of Michigan.		
, -				
Number of through passengers of Number of local passengers carri	srried, earning revenue ed, earning revenue	Numb 18, 15,	523	Rate.
Total number of passengers of	arried earning revenue	e 33,	<del></del> 570	
Number of passengers carried on Average distance carried	e mile		144,139	
Average amount received from ea Average receipts per mile for the Average receipts per mile for local Average receipts per passenger per	ch passenger			\$0 12.632 02 976
Average receipts per mile for loc	al passengers			02.976 02.924
Average receipts per passenger p	er mile for all passenge	ers		02.942
	Freight traffic.—In Sta	te of Michigan.		
		Tor	ns. Miles.	Rate.
Number of tons of through freight on Number of tons of local freight of tons of local freight of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	t carried, earning reve arried, earning revenue	nue 745,	528 176	
Total tons of freight carried,	· -			
Total mileage of through freight Total mileage of local freight			7,056	
Total freight mileage or tons	carried one mile		4,166,348	
Average ton haul for through free Average ton haul for local freigh	ight t		5.58 6.00	
Average ton haul for all freig				
Average amount received for eac Average receipts ton per mile, fo Average receipts ton per mile, fo Average receipts ton per mile, fo	h ton haul	• • • • • • • • • • • • • • • • • • • •		\$0 05.589
Average receipts ton per mile, fo	r local freight			00.974 11.901
Average receipts ton per mile, for	au freight	••••••		00.993
			•	

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### (Company's material excluded.)

	Freight originating	Freight re- ceived from connecting	Total freigi	ht tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	81	678	709	00.00
Flour Other mill products.	24	998	1,022	00.14
Other mill products	16	133	149	00.0
Hay	14	1,446	1,460	00.19
Tobacco Fruit and vegetables		398	442	00.0
Potatoes		489	489	00.0
Products of animals:				
Live stock	42	182	224	00.0
Dressed meats.	25	19	44	00.0
Other packing house products	12	47	59	00.0
Other packing house products Poultry, game and fish. Hides and leather.	4		7	
Products of mines:			ĺ	
Anthracite coal		1,303	1,303	00.1
Bituminous coal Ores		13,605	13,605	01.8
Ores Stone, sand and other like articles	716,536		716,536	95.9
Salt		117 15	117 15	00.0
Products of forest:				
Lumber, lath and shingles	745	627	1,372	00.1
Other forest products.	858	4,736	5,594	00.7
Manufactures:			1	
Petroleum and other oils	79	717	796	00.1
Sugar.		40	40	00.0
Iron, pig and bloom		1	1 1	
Other castings and machinery	109	117	226	00.0
Pay and shoet metal		31	220	00.0
Cament brick and lime	20	108	128	00.0
Agricultural implements	l ~~	1	1 2	00.0
Wagons, carriages, tools, etc.		1 8	l 8	
Wines, liquors and beers		580	580	00.0
Cement, brick, and lime. Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture.	56	71	127	00.0
	i		-	
Morchandise		718 76	819 76	00.1 00.0
Miscellaneous: Other commodities not mentioned above		293	708	00.1
Other commodities not manifolded 8004e	410	250		
Total tonnage	719,133	27,571	746,704	100.0

## ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company who pays a fixed amount per annum in monthly installments. A general express business.

At the depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
13.72 miles, owned jointly by Western Union Telegraph Company and this company.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURED.

February 15, Otto C. Spindler, passenger brakeman, Bessemer. Scalded by steam from hose coupling. March 14, Mrs. J. Burns, passenger, Ironwood. Bruised; jumping from train while in motion.
April 9, Chas. Murphy, bridgeman, Bessemer. Bruised; fell from bridge.
May 29, E. D. Tarboss, switchman, Ironwood. Finger crushed; coupling cars.
July 21, Mike Rose, Bessemer, section laborer. Back and side injured; run over by hand car.
August 26, V. E. Cunningham, switchman, Bessemer. Breast injured; struck by crank on derrick.
September 28, E. Gage, switchman, Bessemer. Body squeezed; caught between cars on side track and main track.
October 15, Otto Wure, foreman, Bessemer. Head cut; track spread letting cars down dump.
October 16, Geo. Bennett, section laborer, Ironwood. Head cut; chunk of clay struck him.
Dessember 15, Joe Guigere, warehouseman, Ironwood. Foot crushed by trunk falling on it.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
on addition	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Coupling cars					1 1	
Miscellaneous.				1	7	
Total				1	9	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

ramout or officering baroly accidentations and accidentations are accidentations and accidentations are accidentations and accidentations are accidentations and accidentations are accidentations and accidentations are accidentations and accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentations are accidentational accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation accidentation	Number of persons injured during the year	10 10
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#### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Brakemen Laborers Yardmen		1 1 4 3	
Total		9	

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, } ss.

Frederick Abbot, vice president, and Robert Toombs, auditor of the Gogebic & Montreal River Rail-road Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

FRED'K ABBOT, Vice President. R. TOOMBS, Auditor.

Subscribed and sworn to before me this 6th day of March, A. D. 1897.

[L. S.]

EDGAR C. HOE,

Notary Public, Milwaukee County, Wisconsin.

#### OF THE

## GOGEBIC & MONTREAL RIVER RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 9, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICE 3.

President, EDWIN H. ABBOT, Boston, Mass. Vice President, FRED'K ABBOT, Milwaukee, Wis. Secretary, HOWARD MORRIS, Milwaukee, Wis. Treasurer, EDWIN H. ABBOT, Boston, Mass.

## DIRECTORS.

EDWIN H. ABBOT, Cambridge, Mass. FRED'K ABBOT, Milwaukee, Wis. THOS. H. GILL, Milwaukee, Wis. JOHN MAETIN, Milwaukee, Wis. HOWARD MORRIS, Milwaukee, Wis. Terms expire January 20, 1867.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 27, 1883.

Number of stockholders at date of last election: 6.

Date of annual meeting of stockholders: First Wednesday after third Tuesday in January.

Fiscal year of company ends June 30.

General offices of the company are located at Milwaukes, Wis.

### REMARKS.

Road leased for 999 years to the Penokee Railroad Co. September 1, 1886. All rights and interest under said lease assigned by Penokee Railroad Company to Wisconsin Central Company May 31, 1888.

## ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association \$100.00	\$600,000 00
Number of shares issued	
Total amount paid in as per books of the company	600,000 00
Paid in per mile of road owned by company	36,809 82

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, September 1, 1886 Income bonds, September 1, 1886	5% 5%	March 1, 1987 March 1, 1937	New York City New York City	\$390,000 00 130,000 00
Total funded debt				\$520,000 00
Total funded debt				
Total debt liabilities. Amount of debt liabilities per mile of road, Total amount of stock and debt. Stock and debt per mile of road.	(16.30 mil	es)		31,901 00 1,120,000 00
DESC	RIPTION	OF ROAD.		
Date when the road was opened for use better June 6, 1887.	ween its p	resent termini:		
•	MAIN L	INE.	Wiles	Wilso

Miles.  Length completed in Michigan	Miles. 6.86
BRANCHES.	
In Michigan spurs to mines.  Total length of road belonging to this company in Michigan	16.30
Aggregate length of sidings, spurs, and other track not above enumerated	29.42
Gauge of track, 4 feet 8½ inches.	

STATE OF WISCONSIN, 
COUNTY OF MILWAUKER, 
Frederick Abbot, vice president of the Gogebic & Montreal River Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

Signed,

FRED'K ABBOT, Vice President.

Subscribed and sworn to before me this 6th day of March, A. D. 1897, [L. S.]

EDGAR C. HOE,

Notary Public, Milwaukee County, Wis.

#### OF THE

## GRAND RAPIDS & INDIANA RAILWAY COMPANY,

For the year ending December 81, 1896.

#### [Filed May 1, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES McCREA, Pittsburgh, Pa.
Vice President and Treasurer, W. R. SHELBY, Grand Bapids, Mich.
Secretary and Auditor, R. R. METHEANY, Grand Rapids, Mich.
General Manager, J. H. P. HUGHART, Grand Rapids, Mich.
General Counsel, T. J. O'BRIEN, Grand Rapids, Mich.
Division Superintendents,

W. B. STIMSON, Grand Rapids, Mich.
P. S. O'ROURKE, Fort Wayne, Ind.
Chief Engineer, THOMAS RODD, Pittsburgh, Pa.
Superintendent of Telegraph, A. M. SCHOYER, Pittsburgh, Pa.
General Passenger and Ticket Agent, C. L. LOCKWOOD, Grand[Rapids, Mich.
General Freight Agent, E. C. LEAVENWORTH, Grand Rapids, Mich.

#### DIRECTORS.

JAMES MCCREA, Pittsburgh, Pa.
J. T. BEOORS, Pittsburgh, Pa.
JNO. E. DAVIDSON, Pittsburgh, Pa.
JOSEPH WOOD, Pittsburgh, Pa.
W. R. SHELBY, Grand Rapids, Mich.
T. J. O'BRIEN, Grand Rapids, Mich.
H. J. HOLLISTER, Grand Rapids, Mich.
Terms expire March 2, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 11, 1896.
Number of stockholders at date of last election: 184.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$167,000.
Date of annual meeting of stockholders: First Wednesday in March.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich.

#### GENERAL EXHIBIT.

For the period January 1, to July 81, 1896.		
Total earnings from operation	\$982,027 25	\$1,142,241 43
Net income	·	. \$160,214 18
Interest on funded debt	283,040 81 39,768 80	
Balance for the year.  Balance (profit and loss) last year.  Items not included in above, as follows:	162,589 98 3,797,175 01	
Old accounts paid. Construction and equipment charged to income	29,652 32	3,990,699 <b>9</b> 5
		23,990,699,95

## GENERAL EXHIBIT.

For the	period	August 1,	to December 81, 18	96.	Debit.	Credit.
otal earnings from operation					741,084 29	\$923,373 16
			-		•	\$182,288 87
Net income					180,451 66	<b>\$102,200</b> 01
nterest on funded debt nterest on unfunded debt Balance for the year					5,578 58	3, <b>73</b> 6 32
Balance forward to next year				_	186,025 19	\$186,025 19
Dalance for water to hear your				=		
	ialysi	S OF CAE	PITAL STOCK.			
mount authorized by charter or ar	ticles of	associati	on			\$6,000,000 00
umber of shares issued			55,697			
mount paid in on common				_		
Total amount paid in, as per boo						5,569,700 00
Paid in per mile of road owned by o	mpany	, 434.69 mil	.00			12,818 04
		FUNDED :	DEBT.			···
Class, character and date of iss	ue.	Rate of interest.	When due.	Where	payable.	Amount outstanding.
First mortgage, Oct. 1, 1869		74 74 74 <u>7</u> 4	Oct. 1, 1899 Oct. 1, 1899 Oct. 1, 1899	New You	rk rk rk	\$13,000 00 36,000 00 1,367,000 00 3,959,000 00
F. M. land grant, Oct. 1, 1869 F. M. land grant guaranteed, Oct. 1, F. M. guaranteed extended, Oct. 1, 1	18 <b>69</b> 8 <b>69</b>	7× 7× 4×	Oct. 1, 1899 July 1, 1941	New Yo	rk rk	1,367,000 00 3,959,000 00
Second mortgage, Aug. 1, 1896		4%	July 1, 1941 Oct. 1, 1936	Philade	rklphia	8,962,000 00
Total funded debt						\$9,887,000 00
	,	Jnfun <b>de</b> d	DEBT.			
For what incurred.	Is t	he same to	be funded or ho	v liquida	ted?	Amount.
For equipment						\$3,454 7
						150,000 0 840,431 1 845,582 0
For current balances.	Pay roll	s, voucher	s and interest on	debt		845,582 0
Total unfunded debt						\$839,417 8
	1	RECAPITUI	LATION.			•
Total funded debtTotal unfunded debt						\$9,887,000 0 839,417 8
Total debt liabilities						\$10,176,417 8
Amount of debt liabilities per mile Total amount of stock and debt Stock and debt per mile of road, 43	of road 4.69 mil	, 484.69 mi	los			28,410 7 15,746,117 8 26,228 7

## GENERAL BALANCE SHEET.-DR.

Construction account	\$	15,056,700 00
Cash items: Cash Due from agents	\$407,675 06 69,090 55	476,765 61
Other assets:  Materials and supplies  Debit balances from companies and individuals	\$187,789 96 77,872 80	\$215,662 76
Total		15,749,128 87
GENERAL BALANCE SHEET.—Cr.		
Capital stock		\$5,569,700 00 9,887,000 00
Unfunded debt: Interest unpaid	\$161,891 17 183,640 88	
Other liabilities (list as follows:)  Mortgage on real estate	150,000 00 71,625 00 8,454 71 174,846 85 94,459 28	
Profit and loss or income accounts		889,417 89 8,010 <b>4</b> 8
Total		15,749,128 87
COST OF BOAD AND EQUIPMENT.		
When purchased: August 1, 1896. Original cost to present company, of road and equipment Total cost to date of report. Average cost per mile of road (not including sidings) Proportion of cost for Michigan		15,056,700 00 84,687 79

Total transportation earnings, entire line	4.111 XX
Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation, as follows:  From telegraph companies	
Total	19,812 24
Distribution of miscellaneous earnings between main line and leased or proprietary roads  Total miscellaneous:	
Grand Rapids & Indiana Railroad \$19,313 45 Muskegon, Grand Rapids & Indiana Railroad 200 70 Traverse City Railroad 228 09	\$18,667 15 260 70 238 09
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	4.151.65
Total income from all sources	\$2,065,614 59
Proportion of income for Michigan	1,775,098 17
analysis of expenses.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway. Renewals of rails Renewals of trails Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of dooks and wharves. Repairs and renewals of telegraph. Stationery and printing Other expenses	87,499 41 14,813 11 12,849 32 80,387 18 188 68 4,880 40 35 18
Total MAINTENANON OF EQUIPMENT.	
Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of twork cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total	8,154 72 747 54 4,588 07
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Other supplies for locomotives Train service. Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station supplies. Station supplies. Switching charges—balance Car mileage—balance Hire of equipment Loss and damage Injuries to persons. Clearing wrecks. Advertising Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property. Stationery and printing Other expenses	170,818 33 8,839 47 1,428 90 234,135 77 223,894 01 67,387 65 28,290 26 143,688 48 15,477 97 1,020 66 21,382 05 2,076 7 4,558 90 6,430 11 2,384 76

GENERAL EXPENSES.		
Salaries of general officers		\$16,426 61
Salaries of clerks and attendants General office expenses and supplies.		81,188 18 4,589 69
Law expenses		2,919 47
Law expenses Stationery and printing (general offices). Other expenses.		5,292 92 2,788 56
Taxes		60,993 20
Total		\$124,098 58
RECAPITULATION OF EXPENSES.	Per cent of	
RECAPITULATION OF EXPENSES.	expenses.	
Maintenance of way and structures.	22.24	\$383,184 20
Maintenance of equipment.	19.61 50.95	\$383,184 20 837,928 89 877,899 87
General expenses, including taxes	7.20	124,098 58
Total operating expenses and taxes	100.00	\$1,728,111 54
Operating expenses and taxes per mile of road, 497.54 miles.  Operating expenses and taxes per train mile run, for trains, earning revenue, 1,78 Proportion of operating expenses and taxes for Michigan, main line	54,296 miles.	\$3,463 26 98 1,394,978 58
Leased or proprietary roads: Muskegon, Grand Rapids & Indiana R. R.		90,280 09
Muskegon, Grand Rapids & Indiana R. R. Traverse City Railread		37,657 80
Total proportion of expenses for Michigan		\$1,522,891 47
Percentage of expenses to earnings	88 42	
Percentage of expenses to earnings Net earnings per mile of road Net earnings per train mile		672 31
Net earnings per train mile		19
THE COLOT OF THE COLO		
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini:		
Date when the road was opened for use between its present termini:	Spur, <b>M</b> ichi	gan, 1894.
Date when the road was opened for use between its present termini: From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, Chranches) to Carey, Michigan, 1882. From Kegomic, Michigan, to Harbor Springs, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From A67 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.	Spur, <b>M</b> ichi	gan, 1894.
Date when the road was opened for use between its present termini: From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, Oranches) to Carey, Michigan, 1882. From Kegomic, Michigan, to Harbor Springs, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From Act miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.	Miles.	igan, 1894. Miles
Date when the road was opened for use between its present termini:  From Fort Wayno, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches) to Carey, Michigan, 1882. From Messukee Junction, Michigan, to Lake City, Michigan, 1882. From Messukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From 4.67 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinsw City.	Miles. 313 48	
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, Oranches) to Carey, Michigan, 1882.  From Kegomic, Michigan, to Harbor Springs, Michigan, 1882.  From Missaukee Junction, Michigan, to Lake City, Michigan, 1890.  From Jake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1892.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From A67 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.	Miles. 313.48 53.11	Miles
Date when the road was opened for use between its present termini:  From Fort Wayno, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches) to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1882. From Jennings Spur Junction, Michigan, to Lake City, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From Care Timles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed	Miles. 313.48 53.11	
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, Oranches) to Carey, Michigan, 1882.  From Kegomic, Michigan, to Harbor Springs, Michigan, 1882.  From Missaukee Junction, Michigan, to Lake City, Michigan, 1890.  From Jake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1892.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From A67 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.	Miles. 313.48 53.11	Miles
Date when the road was opened for use between its present termini:  From Fort Wayno, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches) to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1882. From Jennings Spur Junction, Michigan, to Lake City, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From Care Timles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed	Miles. 313.48 53.11	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, Dranches) to Carey, Michigan, 1882.  From Missaukee Junction, Michigan, to Lake City, Michigan, 1882.  From Missaukee Junction, Michigan, to Lake City, Michigan, 1890.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From L47 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Dean Lake Completed  Length of double track on main line.  BEANOHES.  Missaukee Branch, from Missaukee Junction to Lake City.	Miles. 313.48 53.11	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, Chranches) to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From 4.67 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line.  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City.—to 5.39 miles east of Missaukee Branch, from Herrick Spur—from Lake City—to 5.39 miles east of	Miles. 313.48 53.11 3.10	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches) to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1880. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From Osceola Junction, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line  Total length completed  Length of double track on main line  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69	Miles. 313.48 53.11	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches) to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1880. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From Osceola Junction, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line  Total length completed  Length of double track on main line  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69	Miles. 313.48 53.11 3.10	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, Dranches, to Carey, Michigan, 1882.  From Megomic, Michigan, to Harbor Springs, Michigan, 1882.  From Messaukee Junction, Michigan, to Lake City, Michigan, 1890.  From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From 43 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1885.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BRANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 5.39 miles east of Missaukee Branch, from Yeneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles south of Herrick's Spur—from Jennings Spur Junction—to	Miles. 313.48 53.11 3.10 11.59 5.39 1.69	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, Dranches, to Carey, Michigan, 1882.  From Megomic, Michigan, to Harbor Springs, Michigan, 1882.  From Messaukee Junction, Michigan, to Lake City, Michigan, 1890.  From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From 43 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1885.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BRANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 5.39 miles east of Missaukee Branch, from Yeneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles south of Herrick's Spur—from Jennings Spur Junction—to	Miles. 313.48 53.11 3.10 11.59 5.39 1.69 3.00	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, Chranches) to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Carey, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1880. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894. From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1880. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line.  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City. Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles south of Herrick's Spur Missaukee Branch, from Jennings Spur Junction—to Jennings Manistee Branch, from Milton Junction to Carey. Manistee Branch, from Milton Junction to Carey. Manistee Branch, from Milton Junction to Carey. Manistee Branch, from Mask's Spur—Heak's Spur Junction—to Haak's Mill.	Miles. 313.48 53.11 3.10 11.59 5.39 1.69 3.0 14.51 4.09 9.78	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, Oranches) to Carey, Michigan, 1882.  From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882.  From Megomic, Michigan, to Harbor Springs, Michigan, 1882.  From Messaukee Junction, Michigan, to Lake City, Michigan, 1890.  From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882.  From Lake City, Michigan, to 3.39 miles east of Lake City, Michigan, 1894.  From Acf miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 1.69 miles south of Herrick's Spur—from Jennings Spur Junction—to Jennings.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Mak's Spur—Haak's Spur Junction—to Haak's Mill. Osceola Branch, from Osceola Junction to Olga.	Miles. 313.48 58.11 3.10 11.59 5.39 1.69 3.00 14.51 4.09 9.78 5.76	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, to Mackinaw City, Michigan, 1882. From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882. From Megomic, Michigan, to Harbor Springs, Michigan, 1882. From Messaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to Jennings, Michigan, 1894. From 43 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vuncent, Michigan, 1880. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BRANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 5.39 miles east of Junction, from Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles each of Herrick's Spur—from Jennings Spur Junction—to Jennings  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Osceola Junction to Olga.  Harbor Springs Branch, from Stimson Junction to Merritts.  Plaster Mill Spur, from Barlett Street Junction to South Grand Rapids.	Miles. 313.48 53.11	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, to Mackinaw City, Michigan, 1882. From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882. From Megomic, Michigan, to Harbor Springs, Michigan, 1882. From Messaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to Les miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vincent, Michigan, 1895. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BRANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 5.40 miles south of Herrick's Spur—from Lake City—to 5.59 miles east of Junction—to Jennings.  Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles south of Herrick's Spur  Missaukee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Heak's Mill. Osceola Branch, from Osceola Junction to Osceola Branch, from Osceola Junction to Osceola Branch, from Stimson Junction to Merritts.  Plaster Mill Spur, from Bartlett Street Junction to South Grand Rapids.  Bear Lake Branch, from Bear Lake Junction to Bear Lake.	Miles. 313.48 53.11  3.10  11.59 5.39 1.69 3.0 14.51 4.09 9.78 5.76 5.84 3.93 1.07	Miles 366.59
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, to Mackinaw City, Michigan, 1882. From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882. From Megomic, Michigan, to Harbor Springs, Michigan, 1882. From Messaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to Jennings, Michigan, 1882. From Lake City, Michigan, to Jennings, Michigan, 1894. From 43 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vuncent, Michigan, 1880. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BRANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 5.39 miles east of Junction, from Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles each of Herrick's Spur—from Jennings Spur Junction—to Jennings  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Osceola Junction to Olga.  Harbor Springs Branch, from Stimson Junction to Merritts.  Plaster Mill Spur, from Barlett Street Junction to South Grand Rapids.	Miles. 313.48 53.11  3.10  11.59 5.39 1.69 3.0 14.51 4.09 9.78 5.76 5.84 3.93 1.07	Miles
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, toranches) to Carey, Michigan, 1882.  From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882.  From Messukee Junction, Michigan, to Lake City, Michigan, 1890.  From Junnings Spur Junction, Michigan, to Jennings, Michigan, 1882.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From Left miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 1.69 miles south of Herrick's Spur—from Jennings Spur Junction—to Jennings.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Miton Junction to Merritts.  Plaster Mill Spur, from Bartlett Street Junction to South Grand Rapids Bear Lake Branch, from Bear Lake Junction to Bear Lake  Total length of branches owned by company in Michigan	Miles. 313.48 53.11 3.10 11.59 5.39 1.69 3.0 14.51 4.09 9.78 5.78 5.76 5.84 3.93 1.07	Miles 366.59
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, toranches) to Carey, Michigan, 1882.  From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882.  From Messukee Junction, Michigan, to Lake City, Michigan, 1890.  From Junnings Spur Junction, Michigan, to Jennings, Michigan, 1882.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From Left miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 1.69 miles south of Herrick's Spur—from Jennings Spur Junction—to Jennings.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Miton Junction to Merritts.  Plaster Mill Spur, from Bartlett Street Junction to South Grand Rapids Bear Lake Branch, from Bear Lake Junction to Bear Lake  Total length of branches owned by company in Michigan	Miles. 313.48 53.11 3.10 11.59 5.39 1.69 3.0 14.51 4.09 9.78 5.78 5.76 5.84 3.93 1.07	Miles 366.59 66.65 436.34 380.13
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches) to Carey, Michigan, 1882. From Milton Junction, Michigan, to Lake City, Michigan, 1882. From Missaukee Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Junnings, Michigan, 1890. From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1884. From 43 miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885. From Big Rapids, Michigan, to Vicent, Michigan, 1880. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City. In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line.  BRANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 5.39 miles east of Jenical Spur Junction—to Jennings.  Mainstee Branch, from Veneer Co. Spur—4.67 m·les east of Lake City—to 1.69 miles south of Herrick's Spur—Haak's Spur Junction—to Haak's Mill. Osceola Branch, from Michigan Spur—from Jennings Spur Junction—to Haak's Mill. Osceola Branch, from Maiston Junction to Carey.  Manistee Branch, from Maiston Junction to Carey.  Manistee Branch, from Bartlett Street Junction to South Grand Rapids.  Bear Lake Branch, from Bear Lake Junction to Bear Lake.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company in Michigan.  Total length of road belonging to this company in Michigan.	Miles. 313.48 53.11  3.10  11.59 5.39 1.69 3.0 14.51 4 09 9.78 5.76 5.84 8.93 1.07	Miles 366.59 66.65 496.34 390.13
Date when the road was opened for use between its present termini:  From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882.  From Milton Junction, Michigan, toranches) to Carey, Michigan, 1882.  From Milton Junction, Michigan, to Dranches, to Carey, Michigan, 1882.  From Messukee Junction, Michigan, to Lake City, Michigan, 1890.  From Junnings Spur Junction, Michigan, to Jennings, Michigan, 1882.  From Lake City, Michigan, to 5.39 miles east of Lake City, Michigan, 1894.  From Left miles east of Lake City, Michigan, to 1.69 miles south of Herrick's From Osceola Junction, Michigan, to Olga, Michigan, 1885.  From Big Rapids, Michigan, to Vincent, Michigan, 1890.  From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892.  MAIN LINE.  In Michigan, from Indiana state line to Mackinaw City.  In Indiana, from Fort Wayne to Michigan state line.  Total length completed  Length of double track on main line  BEANCHES.  Missaukee Branch, from Missaukee Junction to Lake City—to 5.39 miles east of Lake City—to 5.39 miles east of Lake City—to 1.69 miles south of Herrick's Spur—from Lake City—to 1.69 miles south of Herrick's Spur—from Jennings Spur Junction—to Jennings.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Milton Junction to Carey.  Manistee Branch, from Miton Junction to Merritts.  Plaster Mill Spur, from Bartlett Street Junction to South Grand Rapids Bear Lake Branch, from Bear Lake Junction to Bear Lake  Total length of branches owned by company in Michigan	Miles. 313.48 53.11  3.10  11.59 5.39 1.69 3.0 14.51 4 09 9.78 5.76 5.84 8.93 1.07	Miles 366.59 66.65 496.34 390.13

## Proprietary or leased roads operated by this company.

	Total miles. In	
Muskegon, Grand Rapids & Indiana Railroad	36.85 26.00	36.85 26.00
Traverse City Hailroad Cincinnati, Richmond & Fort Wayne Railroad	85.60	20.00
Total	148.45	62.85
Total miles operated by the company	584.79	442.98
	====	
Number of bridges and trestles in Michigan.		
	Number, L	Aggregate ength, feet.
Wooden bridges		615.0
Wooden bridges. Stron bridges. Iron bridges.	20	18.8 1,359.5
Combination bridges	~~	1,075.0
Wooden trestles	141	11,052.0
Total		14,120.8
•		
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality?		
L. S. & M. S. R., R. at Sturgis, Plainwell, Kalamazoo and Grand Rapids.  Michigan Central R. R. at Wasepi and Kalamazoo.  Chicago & Grand Trunk R. R. at Vicksburgh.  C., J. & M. R. R. at Monteith.  C. & W. M. R. R. at Grand Rapids, Mill Creek, Fruitport Junction, Muskeg Detroit, Grand Hayen & Milwaukee R. R. at Grand Rapids.  Datroit, Grand Hayen & Western R. R. at Grand Rapids and Big Rapids.		
Chicago & Grand Trunk R. R. at Vicksburgh.		
C., J. & M. R. R. at Monteith.	on and Traver	no City
Detroit, Grand Haven & Milwaukee R. R. at Grand Rapids.	On and Itavet	o Oluj.
Detroit, Grand Rayles & Western R. R. at Grand Rapids and Big Rapids. Toledo, Saginaw & Muskegon R. R. at Cedar Springs. Flint & Pere Marquette R. R. at Reed City.		
Flint & Pera Marquette R. R. at Reed City.		
Ann Arbor R. R. at Cadillac.		
C. & N. E. R. R. at Cadillac.		
Kalkaska Lumber Co. R. R. at Kalkaska. Mancelona & Northwestern R. R. at Mancelona.		
Frederick & Charlevoix R. R. at Alba.		
What railroads cross your road either over or under your grade in this State,	and where?	
Over: Detroit, Grand Haven & Milwaukee R. R. near Kinney.		
t what crossings are interlocking and derailing switches in operation? Michigan Central R. R. at Wasepi and Kalamazoo. C. & W. M. R. R. at Grand Rapids and Traverse City. D., G. R. & W. R. at Grand Rapids. Toledo, Saginaw & Muskegon R. R. at Cedar Springs. Ann Arbor R. R. at Cadillac. C. & N. E. R. R. at Cadillac. Kalkaska Lumber Co. R. R. at Kalkaska. M. & F. R. R. at Mancalons.		
Michigan Central R. R. at Wasepi and Kalamazoo.		
D. G. R. & W. R. R. at Grand Rapids and Traverse City.		
Toledo, Saginaw & Muskegon R. R. at Cedar Springs.		
Ann Arbor R. R. at Cadillac.		
Kalkaska Lumber Co. R. R. at Kalkaska.		
M. & N. E. R. R. at Mancelona. Frederick & Charlevoix R. B. at Alba.		
What pattern or patterns have you adopted?		
Union Switch and Signal Co., Gravitt, Wharton, Johnson, Allentown.		
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gat  Number of crossings of highway over or under railroad: over 5; under 2.  Number of highway bridges 18 feet above track.	es or flagmen	560 43 7 5
Have safety guards been erected at overhead obstructions?		·
Yes. Are your frogs and guard rails blocked as required by act 174, session laws 185 Yes.	187	
Ves.		
How are they treated? Wooden blocks.		
How are they treated?		
How are they treated? Wooden blocks.		159 122
How are they treated? Wooden blocks.  Stations.  Number of stations on whole lines.  Same in Michigan	••••••	
How are they treated? Wooden blocks.  Stations.  Number of stations on whole lines.		
How are they treated? Wooden blocks.  Stations.  Number of stations on whole lines.  Same in Michigan	ding officials	

	_			
Classify your employés as per follow	ine list:			Number.
Baggagemen	-			24
Brakemen				181
Conductors				62
Engineers Firemen				92 93
Laborers				520
Shopmen				306
Yardmen Others				148 889
V 4MO10			<i>-</i>	
		··		
	REPAIRS AND RE	NEWALS.		
	Fencing in Mi	chigan.		
How many miles of fencing have you	.9			387
Give the number of miles required to and the counties in which needed		th sides of your trac	ck in Michigan,	
Newaygo, Mecosta, Osceola, Lake,	Wexford, Missauk	se, Grand Traverse,	Emmet	46
			=	
	Road bed and	track.		
Number of treels sections in Michiga	-			97
Number of track sections in Michiga Average lengths of sections, miles	n			4.6
Average number of men in each sect	on gang			. 2.87
Number of new ties put in whole lin	e during the year			261,096 214,227
Average lengths of sections, miles Average number of men in each sect Number of new ties put in whole lin Number of new ties put in track in l Average number of new ties per mile	of road.			449
New rails put in track:				00.00
New rails put in track: Steel, tons, 3,297.599 miles Total miles of track laid with new r	aila			29.99 29.99
Total milos of Made 1814 with how I			=	
	Diidaa and a	lasanta		
	Bridges and cr	41001481		
Amount of trestle work replaced wit	h earth during the	veer linear feet		898
Timber culverts replaced during the	year:			
With iron pipe—number	-			16
With timber—number				5 9
With timber—number New bridges built during the year	-number			5 9 8
With timber—number  New bridges built during the year	number		=======================================	9
With sewer pipe—number. With timber—number. New bridges built during the year	-number		=======================================	9
With timber—number	number		=======================================	9
With timber—number. New bridges built during the year Location.	numberKind.		Month built.	8
With timber—number	number		=======================================	9 8 Feet in
With timber—number	-numberKind.	Material.	Month built.	Feet in length.
With timber—number	-numberKind.	Material.	Month built.	Feet in length.
North of M. P., 31 North of M. P., 118. D., G. H. & M. Junction.	-numberKind.	Material.	Month built.	Feet in length.
North of M. P., 31	-numberKind.	Material.	Month built.	Feet in length.
North of M. P., 31	-numberKind.	Material.	Month built.	Feet in length.
North of M. P., 31 North of M. P., 118. D., G. H. & M. Junction.	-numberKind.	Material.	Month built.	Feet in length.
North of M. P., 31	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles T	Material.	=======================================	Feet in length.
North of M. P., 31	-number	Material.	Month built.	Feet in length.
North of M. P., 31	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Material.  Timber	Month built.	Feet in length.
North of M. P., 31	-number	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24
North of M. P., 31 North of M. P., 118 North of M. P., 118 On G. A. M. Junction Cedar Springs Morley Herrick's Branch West of M. P., 15.	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles ROLLING ST	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24 seent esti-ted value.
North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 173 64 24  seent esti- ted value. 8408,000 00
North of M. P., 31. North of M. P., 31. North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24 seent esti-ted value.
North of M. P., 31. North of M. P., 118. D. G. H. & M. Junction. Cedar Springs. Morley Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
North of M. P., 31. North of M. P., 31. North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
North of M. P., 31. North of M. P., 31. North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
North of M. P., 31  North of M. P., 31  North of M. P., 118  D., G. H. & M. Junction  Cedar Springs  Morley  Herrick's Branch  West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to Total  Number of passenger cars—12-wheel Number of passenger cars—8-wheel, Number of springs and begange and	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  30 tons weight, exclusive including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including officia	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
North of M. P., 31  North of M. P., 31  North of M. P., 118  D., G. H. & M. Junction  Cedar Springs  Morley  Herrick's Branch  West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to Total  Number of passenger cars—12-wheel Number of passenger cars—8-wheel, Number of springs and begange and	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  30 tons weight, exclusive including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including officia	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
New bridges built during the year  Location.  Location.  North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING S1 a 30 tons weight, exclusive , including official concluding offici	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
New bridges built during the year  Location.  Location.  North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING S1 a 30 tons weight, exclusive , including official concluding offici	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 178 64 24  seent esti- ted value. 803,000 00 3,000 00 8406,000 00
Location.  Location.  Location.  North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles , including official cincluding official cin	Material.  Timber	Month built.	Feet in length.  73 14 60 48 173 64 24  seent estited value. 8408,000 00 8,000 00
Location.  Location.  Location.  North of M. P., 31. North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—3-wheel, Number of systems and baggage car Number of stoke, cars. Number of stoke, cars. Number of platform cars. Number of ore cars. Number of core cars. Number of core cars. Number of core cars. Other cars. Derrick	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI a 30 tons weight, excusive , including official concluding officia	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 173 64 24  8eent esti- ted value. 8408,000 00 57,000 00 122,000 00 125,000 00 126,000 00 127,250 00 117,250 00 117,250 00 117,250 00 117,250 00
Location.  Location.  Location.  North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusive including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including offic	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 173 64 24  8eent esti- ted value. 8408,000 00 57,000 00 122,000 00 125,000 00 147,000 00 127,250 00 17,250 00 17,250 00 17,250 00 17,250 00 17,250 00 17,250 00
Location.  Location.  Location.  North of M. P., 31. North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—3-wheel, Number of systems and baggage car Number of stoke, cars. Number of stoke, cars. Number of platform cars. Number of ore cars. Number of core cars. Number of core cars. Number of core cars. Other cars. Derrick	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusive including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including offic	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 173 64 24  8eent esti- ted value. 8408,000 00 57,000 00 122,000 00 125,000 00 147,000 00 127,250 00 17,250 00 17,250 00 17,250 00 17,250 00 17,250 00 17,250 00
Location.  Location.  Location.  North of M. P., 31. North of M. P., 118. D. G. H. & M. Junction. Cedar Springs. Morley. Herick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—12-wheel, Number of passenger cars—8-wheel, Number of passenger cars—Number of stock cars. Number of stock cars. Number of stock cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of cars. Derrick Pile driver. Inspection car.	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING S1  a 30 tons weight, excusive including official colling official colling	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 173 64 24  seent esti- ted value.  8408,000 00 3,000 00 125,000 00 406,000 00 125,000 00 131,000 00 177,250 00 131,000 00 177,000 00
Location.  Location.  Location.  North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING S1  a 30 tons weight, excusive including official columning official columning official columning	Material.  Timber	Month built.  August	Feet in length.  73 14 60 48 173 64 24  seent estited value. 8408,000 00 57,000 00 55,000 00 55,000 00 125,000 00 14,700 00 340,750 00 17,250 00 17,250 00 17,000 00

Number of locomotives equipped with power brakes	63 92 580
What patterns of power brakes have you in use, and number of locomotives and cars with each? All Westinghouse.	
Are your freight cars being equipped with automatic couplers as required by act No. 147, session of 1885, as amended by act No. 88, session laws of 1887? Yes.	laws
What pattern or patterns have you adopted for use? Januey.	
How are your passenger cars heated. Steam.	

## MILEAGE TRAFFIC, ETC.

Train mileage.		Entire lives. Is	n Michigan.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains  Total milesge of trains earning revenue.		895,764 774,899 84,078 1,754,286	774,560 642,880 84,078 1,501,518
		,	
Passenger traffic.—Entire lines.			_
Number of through passengers carried, earning revenue	Numbers 49,975 908,344		Rate.
Total number of passengers carried, earning revenue	958,319		
Number of passengers carried one mile Average distance carried Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers		29.48	\$0 64 2.019 2.182 2.169
Passenger traffic.—In State of Mich	igan.		
	Numbers.	Miles.	Rate
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	50,089 775,722		
Total number of passengers carried, earning revenue	825,811		
Number of passengers carried one mile Average distance carried Average amount received from each passenger		. 83.79	20 64
Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			2.019 1.876 1.887
Freight traffic.—Entire lines.			
	Tons.		Rate.
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	167,759 1,438,112		
Total tons of freight carried, earning revenue	1,605,871		
Total mileage of through freight Total mileage of local freight		18,118,856 135,597,762	
Total freight mileage or tons carried one mile		158,716,618	
Average ton haul for through freight  Average ton haul for local freight.		108.00 94.29	
Average ton haul for all freight		95.72	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight			\$0 82 00.726 00.872 00.855

		T 04.4.	. 4	
Freight	tramc	-In State	or Mic	hioan.

Freight traffic.—In State of Michi	gan.		
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 176,792 1,192,594	Miles.	Rate.
Total tons of freight carried, earning revenue	1,869,886		
Total mileage of through freight.  Total mileage of local freight.  Total freight mileage or tone carried one mile.  Average ton haul for through freight  Average ton haul for local freight		26,666,181 15,550,033 106.81	
Average ton haul for all freight		106.29	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight			\$0 82 00.651 00.790 00.772

## FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

## Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	21,926 11,175	24,309 98,640	46,235 109,815	2.88 6.84
Flour Other mill products.	4.484	22,248	26,712	1.66
Hay Tobacco Fruit and vegetables	4,464 8,797	15.618	19.410	1.21
Tobacco	82	1,992	2,074	.18
Fruit and vegetables. Other articles.	40,518 1,418	18,015 9,458	58,528 10,876	8.64 .68
Products of animals:		1		
Live stock	4,587 1,040	1,603 4,584	6,190 5,574	.30
Dressed meats Other packing house products Poultry, game and fish	1,010	275	851	.02
Poultry, game and fish	552	309	861	.08
Wool	803	807	610	.00
Hides and leatherOther articles	1,845 1,658	2,957 517	4,802 2,175	.30 .10
Products of mines:				
Anthracite coal Bituminous coal	472	23,898	23,907 113,612	1.49 7.00
Coke		118,140	110,012	.24
Ores		8,882 35,838	8,910 55,888	8.4
Ores Stone, sand and other like articles	<b>36,818</b> 278	8,278 5,656	39,591 5,934	2.47 .87
Products of forest:				
Lumber Logs, shingles and other articles	225,008 362,288	126,635 93,421	351,638 455,659	21.91 28.39
Mannfactures :	ŀ			
Petroleum and other oils	2,503 3,855	14,029 7,619	16,584 11,474	1.0
Sugar	24,678	9 201	27,969	1.7
Iron, pig and bloom Iron and steel rails Other castings and machinery	1,629	8,291 8,939	5,618	1.8
Other castings and machinery	7,888	15,937	23,825	1.4
Bar and sheet metal	894	14,218 12,886	15,112	.9
Cement, brick, and lime	4,630 1,021	12,886	17,016 8,287	1.0
Agricultural implements	3,697	2,216	4,558	.2
Wines, lionors and beers	3,185	2,666	5.851	.8
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture Other manufactures	20,421 25,508	5,332 42,175	25,758 67,683	1.0 4.2
Merchandise	· ·	5,706	18,852	. 8
Miscellaneous:				
Other commodities not mentioned above	21,194	2,893	23,587	1.47
Total tonnage	846,588	759,888	1,605,871	100.00

## FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

#### Company's material excluded.

	1		<del> </del>	
g	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	16,830	21,231 97,895	37,561	2.74
Flour Other mill products	10,646 4,852	21.444	108,541 25,796	7.98 1.88
Hav	2.882	15,255	18,187	1.82
Tobacso Fruit and vegetables	168	837	505	.04
Fruit and vegetables	39,615	14,968	54,583	8.98
Other articles	1,234	8,678	9,912	.72
Products of animals: Live stock	1,770	1.843	3,113	.28
Dressed masts	999	4,496	5,495	.40
Other packing house products Poultry, game and fish	72	263	335	.02
Poultry, game and fish	198	261	459	.08
Wool Hides and leather	257 1,809	253	510	.04
Other articles.	744	2,416 488	4,225 1,182	.31 .09
Products of mines:				
Anthracite coal		8,115	8,115	.23
Bituminous coal			27,632	2.02
Coke		1,273 55,768	1,278 55,768	.09 4.07
OresStone, sand and other like articles	33,780	1,669	85,449	2.59
Salt	375	4,801	5,176	.38
Products of forest:				
LumberOther articles	223,692 359,854	104,674 89,852	382,366 449,206	28.98 82.80
Mauufactures:	1			
Petroleum and other oils	1,851	6,328	8,179	.60
Sugar Iron, pig and bloom	3,255	8,817	7,072	.52 1.79
Iron, pig and bloom	23,641 1,653	929 8,545	24,570 5,198	1,79
Other castings and machinery	5,776	6,610	12,386	.90
Bar and sheet metal	1 636	6,610 7,254	7,890	.58
Cement, brick and lime	4.048	7.521	11,569	.84
Agricultural implements	1,021	1,100	2,121	.15
Wines lignors and beers	2,789 3,009	480 1,188	3,269 4,197	.24 .31
Household goods and furniture	19,645	4,263	23,908	1.75
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture Other manufactures.	23,988	25,390	49,378	3.6I
Merchandise	6,637	3,991	10,628	.78
Miscellaneous: Other commodities not mentioned above	20,523	2,159	22,682	1.66
Total tonnage	817,249	552,187	1,369,386	100,00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Adams Express Co.; 47½ per cent of gross earnings. All freights received and delivered at depots The above covers all lines operated by this company.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?	Miles.
Telegraph wire belonging to this company.  Telegraph wire belonging to Grand Rapids Herald Co	
Total	

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have during the year been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

A	mount paid.
Wagner Palace Car Co., New York, terms 1% cents per mile  Pullman Palace Car Co., Chicago, terms 3 cents per mile	\$8,367 19 1,197 00

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

March 17, Burt Hunt, Reed City. Lack of caution; highway crossing.

March 17, C. A. Lillie, Reed City. Lack of caution; highway crossing.

July 27, James Grummit, trespasser, near Rockford. Lack of caution; trespasser.

September 16, Chas. Hawkins, trespasser, near Petoskey. Lack of caution; trespasser.

October 5, D. Cupples, employé, near Missaukee Junction. Train struck hand car; carelessness.

October 5, D. Oth Hobbins, employé, Grand Rapids. Stepped on track ahead of engine. Lack of caution.

October 25, D. Van Middesworts, Grand Rapids. Highway collision; lack of caution.

October 31, James Vent, Brutus. Fell from train; trespasser.

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January 8, Jno. Miene, brakeman, Conklin. Fell off car; accidental.

January 20, S. B. Ellsworth, brakeman, Tustin. Coupling; lack of caution.

January 31. W. S. Johnson, Oden. Fell from train; lack of caution.

January 32. W. S. Wiesman, brakeman, Cadillac. Clumbing; lack of caution.

February 2, Tim Shine, laborer, Farrington. Fell on track; accidental.

February 3, Wm. Swelling, brakeman, Petoskey. Coupling; lack of caution.

February 3, Wm. Swelling, brakeman, Grand Rapids. Injured by truck; accidental.

February 7, A. W. Losey, brakeman, Grand Rapids. Coupling; lack of caution.

February 18, Theodore Hill, Morley. Attempting coupling; trespasser.

February 18, Theodore Hill, Morley. Attempting coupling; trespasser.

February 21, D. Shannon, brakeman, Gedar Springs. Coupling; accidental.

February 22, Prancis Powers, Grand Rapids. Coupling; accidental.

February 24, Francis Powers, Grand Rapids. Climbing between cars; trespasser.

March 2, Geo. Dove, tramp, Milton Junction. Stealing ride; trespasser.

March 24, Grace Burnham, child, Grand Rapids. Unloading freight; accidental.

March 25, S. Etheridge, brakeman, Grand Rapids. Coupling; accidental.

March 25, S. F. Scott, switchman, Grand Rapids. Coupling; accidental.

March 25, S. F. Scott, switchman, Grand Rapids. Coupling; accidental.

June 19, F. Wight, brakeman, Big Rapids. Fell from car; accidental.

June 19, F. Wight, brakeman, Big Rapids. Fell from car; accidental.

June 19, F. Wight, brakeman, Big Rapids. Fell from car; accidental.

July 16, C. B. Royce, fireman, Page, Derailment of train.

July 18, Ellis Gamble, laborer, Manton. Clearing wreck; accidental.

July 22, Mies E. Burges, Big Rapids. Thown from carriage.

July 22, Mies E. Burges, Big Rapids. Thown from carriage.

July 22, Mies E. Burges, Big Rapids. Thown from carriage.

July 22, Mies E. Burges, Big Rapids. Thown from carriage.

July 22, Mies E. Burges, Big Rapids. Thown from carriage.

July 23, Land Borense, Big Rapids. Thown from carriage.

July 22, Mies E. Burges, Big Rapids. Thown from
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#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.	
Collisions		1			11		
Derailments Falling from trains Highway crossings	.		1 3	1	2 2		
Miscellaneous Crespassers on trains	.	1			11		
Prespassers on tracks			2				
Total		2	6	1	26	1	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	8
Number of persons injured during the year	45
Number of casualties purely accidental	19
Number resulting from lack of caution, carelessness or misconduct	20
Trespassers and tramps killed or injured	14

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Engineers.	2	18	15
Firemen Laborers Vardmen Not classified above		5 4 2	5- 4 2
Total	2	26	28.

## STATE OF MICHIGAN, SS. COUNTY OF KENT,

W. R. Shelby, vice-president, and R. R. Metheany, auditor of the Grand Rapids & Indiana Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1898, to the best of their knowledge and belief.

[L. S. OF E. R.]

Signed,

W. R. SHELBY, Vice-president,

R. R. METHEANY, Auditor.

Subscribed and sworn to before me this 29th day of April, A. D. 1897.

[L. S.]

FRANK L. DANFORTH, Notary Public, Kent County, Michigan.

#### OF THE

# MUSKEGON, GRAND RAPIDS & INDIANA RAILROAD COMPANY.

For the year ending December 81, 1896.

[Filed May 8, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Rapids, Mich. Secretary, R. B. METHEANY, Grand Rapids, Mich. Treasurer, W. R. SHELBY, Grand Rapids, Mich. Transfer Agent, R. R. METHEANY, Grand Rapids, Mich.

#### DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.
T. J. O'BRIEN, Grand Rapids, Mich.
J. H. P. HUGHART, Grand Rapids, Mich.
R. R. METHBANY, Grand Rapids, Mich.
L. N. KEATING, Muskegon, Mich.
N. McGraft, Muskegon, Mich.
Term expires, March 1, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When articles of association filed: February 12, 1886.
Number of stockholders at date of last election: 8.
Number of stockholders at same date, in Michigan: 8.
Amount of full paid stock held in Michigan at same date. \$1,000.00.
Date of annual meeting of stockholders: First Wednesday in March.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich.

#### REMARKS.

Operated by the Grand Rapids & Indiana Railway Company. Terms: Net earnings.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$850,000 00
Total amount paid in, as per books of the company	1,000 00
Paid in per mile of road owned by company	27 14

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, June 9, 1886	5%	July 1, 1926	New York	\$750,000 00

These bonds were issued by the Grand Rapida & Indiana Railroad Company, and were secured by a first mortgage on the railroad and property of the Muskegon, Grand Rapids & Indiana Railroad.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous	Coupons to be paid	<b>\$99,</b> 075 00

### ANALYSIS OF DEBT ACCOUNTS.

#### RECAPITULATION.

Total funded debt	\$750,000 00 99,075 00
Total debt liabilities.	\$849,075 00
Amount of debt liabilities per mile of road, 86.85 miles.  Total amount of stock and debt.  Stock and debt per mile of road.	28,041 44 850,075 00 23,068 52
· INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year.	\$87,500 00
If interest is in default state the years and amounts as follows: Six months interest due January 1, 1895. (Paid February 1, 1897) Six months interest due July 1, 1895. Six months interest due January 1, 1896.	18,750 00 18,750 00

## COST OF ROAD AND EQUIPMENT.

TOTAL COST FOR CONSTRUCTION AND EQUIPMENT OF ROAD, AND BRANCHES BUILT BY COMPANY.

Total expended for construction.  Average cost of construction per mile of road (not including sidings), 36.85 miles.	20,270 78
Proportion of cost of construction for Michigan	746,978 21

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 1, 1886.

MAIN LINE. Miles.	Miles.
Length completed in Michigan 36.85 Total length completed	36.85
Total length completed Total length of road belonging to this company Total length of road belonging to this company in Michigan 36.85	
Aggregate length of sidings, spurs, and other tracks not above enumerated.  Same in Michigan 8.12	8.12
Aggregate length of tracks belonging to this company, computed as single track	44.97

Gauge of track: 4 feet 9 inches.

OF THE

## TRAVERSE CITY RAILROAD COMPANY,

For the year ending March 81, 1896.

[Filed May 1, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, PERRY HANNAH, Traverse City, Mich. Secretary, R. R. METHEANY, Grand Rapids, Mich. Treasurer, W. R. SHELBY, Grand Rapids, Mich. Transfer Agent R. R. METHEANY, Grand Rapids, Mich.

#### DIRECTORS.

PERRY HANNAH, Traverse City, Mich.
W. H. C. MITCHELL, Traverse City, Mich.
THOS. T. BATES, Traverse City, Mich.
D. C. LEACH, Traverse City, Mich.
W. O. HUGHAET, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.
J. H. P. HUGHAET, Grand Rapids, Mich.
Term expires May 6, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 30, 1871.

Number of stockholders at date of last election: 73.

Number of stockholders in Michigan at same date: 72.

Amount of full paid stock holder at same date: \$35,400.00

Date of annual meeting of stockholders: Thursday after first Wednesday in May.

Fiscal year of company ends December 31.

General offices of the company are located at Traverse City, Mich.

#### REMARKS.

Operated by Grand Rapids & Indiana Railway Co. Terms: net earnings.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares Average price received per share Number of shares issued 2,050 Amount paid in on common	\$100 00	\$205,000 00
Total amount paid in, as per books of the company		\$205,000 00
Paid in per mile of road owned by company		7,884 62

Gauge of track, 4 feet 9 inches.

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEST.

		PUNDED I	DEST.		
Class, character and date of	of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
First mortgage, January 1, 1883 Income mortgage, January 1,			January 1, 1983. January 1, 1988.	New York	\$250,000 ( 190,000 (
Total funded debt		••••••			\$440,000 (
	. ,	UNFUNDED	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	v liquidated.	Amount.
For miscellaneous For current balances	Coupon	s—to be pa	id		\$11,430 ( 628 (
Total unfunded debt					\$12,058
		RBCAPITUI	ATION.		
Total funded debt Total unfunded debt					\$440,000 ( 12,053 (
Total debt liabilities			• • • • • • • • • • • • • • • • • • • •		\$452,058
Amount of debt liabilities per r Total amount of stock and deb Stock and debt per mile of road	nile of road t				17,886 ( 657,058 ( 25,271 )
	INTERBA	T ON THE	FUNDED DEBT.		
What is the amount of same downs it paid for the last year? If interest is in default state th Six months' interest due Jan Six months' interest due July Six months' interest due Jan	No.	omonnte e	a follows:		n
	COST OF	ROAD AN	D EQUIPMENT	•	
Total cost for constri	ection and e	quipment c	f road and branc	hes built by compa	ny.
Total expended for construction Average cost of construction per Proportion of cost of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of construction of constru	n or mile of roo ion for Mich	ad (not inc	luding sidings) 2	8 miles	24,856 646,268
	DESC	RIPTION	OF ROAD.		
Date when the road was opene December 1, 1872.	d for use bet	tween its p	resent termini:		
•		MAIN L	INE.		Mile
Length completed in Michigan Total length of road belonging Aggregate length of sidings, sp Aggregate length of tracks	to this comp urs, and oth	er tracks r	iot above enumer	ated	26. 0 4.
_					

#### OF THE

## HANCOCK & CALUMET RAILROAD COMPANY.

For the year ending December 81, 1896.

[Filed April 5, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. B. ELDRIDGE, Marquette, Mich.
Vice President, J. M. WILKINSON, Marquette, Mich.
Secretary, A. E. MILLER, Marquette, Mich.
Auditor, A. E. DELF, Marquette, Mich.
Treasurer, E. W. ALLEN, Marquette, Mich.
Assistant Treasurer and Assistant Secretary:
GEO. H. CHURCH, New York, N. Y.
General Manager, WM. F. FITCH, Marquette, Mich.
Superintendent, J. C. SHIELDS, Hancock, Mich.
General Presight Agent, WM. ORR, Duluth, Minn.
Attorney, A. B. ELDRIDGE, Marquette, Mich.

#### DIRECTORS.

C. H. CALL, Marquette, Mich.
A. B. ELDRIDGE, Marquette, Mich.
A. B., MILLER, Marquette, Mich.
J. M. WILKINSON, Marquette, Mich.
A. S. BIGELOW, Boston, Mass.
W. E. PARNALL, Laurnim, Mich.
Term expires July 14, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 14, 1885. Number of stockholders at date of last election: 12. Number of stockholders in Michigan at same date: 10. Amount of full paid stock held in Michigan at same date: 1,006 ahares. Date of annual meeting of stockholders: Second Tuesday in July. Fiscal year of company ends: December 31. General offices of the company are located at Marquette, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$178,088 43
Net income		\$65,988 44
Interest on funded debt.	\$16,250 00	
Balance applicable to dividends		\$49,738 44
Dividends declared (5 per cent)	\$17,500 00	
Balance for the year.		\$32,238 44
Balance (profit and loss) last year		260,114 47
Balance forward to next year		\$292,852 91

## ANALYSIS OF CAPITAL STOCK.

f associati	ao		\$850,000 00
		8,500	00
		350,000	00
he compan	y		850,000 00
, 31.19 mile	M	• • • • • • • • • • • • • • • • • • • •	11,221 55
FUNDED 1	DEBT.		
Rate of Interest.	When due.	Where payable	Amount outstanding.
. 5≴	Jan. 1, 1931	In New York, N.	Y. *\$400,000 00
			\$400,000 00
in the trea	asury of the comp	any.	· · · · · · · · · · · · · · · · · · ·
RECAPITUI	ATION.		
			\$400,000 00
•			\$400,000 00
			=
			750,000 00 24,046 17
BALANC	E SHEETDr.		
			\$703,062 80 167,872 94
		\$75,000	75,000 00
luals		<b> \$96,91</b> 7	- 17 96,917 17
			\$1,042,852 91
BALANC	E SHEETCR.		
			\$350,000 00
			\$350,000 00 400,000 00 292,352 91
ROAD AN	D EQUIPMENT		
zuipmen! o	f road and branc	hes built by comp	any.
ment g sidings),	81.19 miles		\$870,435 74 27,907 53 870,435 74
	•		870,435 74
	he compar, 31.19 mile  Rate of Interest.  5%  in the tree  81.19 mile  81.19 mile  BALANO  Wals  ROAD AN  guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guipment of guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and guidens, and	he company	Rate of Interest. When due. Where payable   5% Jan. 1, 1931 In New York, N.   in the treasury of the company.   RECAPITULATION.

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

		<del></del>			
	Extensions and new sidings.	New fences.	New locomotives.	New cars.	Total.
Main line	\$1,986 29	\$116 60	\$296 87	\$11,685 05	\$14,084 81
Dollar Bay Dock	6,527 87				6,527 87
Total charges	\$8,464 16	\$116 60	\$296 87	\$11,685 05	20,562 68
Total charges to property account a Net addition to property account	s above				\$20,562 68 20,562 68
Main line and branches:		EE EARNINGS	-		
Local fares					
Total passenger farea	•••••••	· · · · · · · · · · · · · · · · · · ·		_ \$11,809 90	
Express and baggage				. 833 89 . 669 01	
Total passenger department es	rnings				\$12,812 80
Per train mile Per mile of road				\$0 48.92 407 79	
Main line and branches: Local traffic		T EARNINGS.		<b>. \$164</b> ,818 18	
Total traffic				. \$164,818 13	
Total freight department earn	ings				164,818 13
Per train mile Per mile of road					
Total transportation earnings, e	ntire lines				\$177,680 98
Transportation earnings per mile of Transportation earnings per train a For rents not otherwise provided fo	road nile			\$5,658 44 96.8 457 50	88
Distribution of miscellaneous earni	ngs between i	main line and	leased or prop	prietary roads:	Proportion
Hancock & Calumet R. R.				cellaneous. fo	r Michigan. \$457 50
Total earnings from operation of ro Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings for h Total taxable earnings per mile of r				\$5.668.00	\$178,088 43 178,088 43
Total taxable earnings per mile of re	oad in Michig	an			5,668 00
Total income from all sources		- <b></b>			\$178,088 48
Proportion of income for Michigan					178,088 48

## ANALYSIS OF EXPENSES.

AN A PARMENT A SECTION	A	4 25	
MAINTENANCE	UF WAI		BIEUUIUEES.

MALINIAN OF WAI AND SIROUTURES.		
Bepairs of roadway		\$15,280 84
Renewals of ties		1,096 98
Repairs and renewals of bridges and culverts		397 35
Repairs and renewals of fences, road crossings, signs and cattle guards		80 06
Repairs and renewals of buildings and fixtures.		622 OS
Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of fences, road crossings, signs and cattle guards  Repairs and renewals of buildings and fixtures  Repairs and renewals of telegraph		85 64
Stationery and printing		1 37
m . 1		A10 FA1 00
Total		\$17,564 22
MAINTBHANCE OF EQUIPMENT.		
		e1 ee0 00
Paper in tendence		\$1,260 00
Repairs and renewals of necessary as a		5,219 75 1,220 84
Repairs and renewals of passenger cars		8,466 93
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Other expenses		74 50
Total		\$16,242 02
CONDUCTING TRANSPORTATION.		
Superintendence		\$1,416 56 16,229 53 16,281 37 776 68
Engine and roundhouse men		16,229 53
Final for locomotives		16,281 37
Water supply for locomotives Oil, tallow and waste for locomotives		776 68
Oil, tallow and waste for locomotives.		483 22
Other supplies for locomotives Train service		483 22 106 17 15,293 10 874 62
Train service		10,298 10
Train supplies and expenses Switchmen, flagmen and watchmen		8,693 64
Telegraph expenses		1,797 09
Station carries		8,460 04
Station supplies		678 17
Loss and damage		59 78
Injuries to persons		45 00
Advertising		40 87
Station supplies Loss and damage. Injuries to persons Advertising Rent of buildings and other property.		900 00
Stationery and printing		425 71
· · ·		
Total		\$67,061 00
Total		
· · ·		
Total		\$67,061 00
Total		\$67,061 00
Total  GENERAL EXPENSES.  Salaries of general officers  Salaries of clerks and attendants.  General office armaness and supplies		\$87,061 00 \$83,150 00 2,044 20
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies		\$87,061 00 \$3,150 00 2,044 20 116 63 367 60
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies		\$67,061 00 \$3,150 00 2,044 20 116 63 367 60 491 29
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies		\$57,061 00 \$3,150 00 2,044 20 116 63 367 60 491 29 91 17
Total  GENERAL EXPENSES.  Salaries of general officers		\$87,061 00 \$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07
Total  GENERAL EXPENSES.  Salaries of general officers  Salaries of clerks and attendants.  General office armaness and supplies		\$57,061 00 \$3,150 00 2,044 20 116 63 367 60 491 29 91 17
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses Taxes		\$3,150 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79
Total  GENERAL EXPENSES.  Salaries of general officers		\$87,061 00 \$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses Taxes		\$3,150 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total		\$3,150 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices). Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.		\$3,150 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.	Per cent of	\$3,150 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses.	\$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.	Per cent of exp*nses.	\$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.	Per cent of exp*nses. 15.67 14.49	\$3,150 00 2,044 20 16 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses. 15.67 14.49 59.82	\$87,081 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79 \$11,232 75 \$11,232 75
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment Conducting transportation General expenses, including taxes.	Per cent of expenses. 15.67 14.49 59.82 10.02	\$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment Conducting transportation General expenses, including taxes.	Per cent of expenses. 15.67 14.49 59.82	\$87,081 00 2,044 20 116 63 387 60 491 29 91 17 182 07 4,789 79 \$11,232 75 \$11,232 75
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses. 15.67 14.49 59.82 10.02	\$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75
Total  General expenses.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. (Conducting transportation General expenses, including taxes.  Total operating expenses and taxes	Per cent of expanses. 15.67 14.49 59.82 10.02	\$3,150 00 2,044 20 2,044 20 91 17 182 07 4,789 79 \$11,232 75 \$17,564 22 16,242 02 67,061 00 11,232 75 \$112,099 99
Total  General expenses.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. (Conducting transportation General expenses, including taxes.  Total operating expenses and taxes	Per cent of expanses. 15.67 14.49 59.82 10.02	\$3,150 00 2,044 20 2,044 20 491 29 91 17 182 07 4,789 79 \$11,232 75 \$17,564 22 16,242 02 67,061 00 11,232 75 \$112,099 99 \$3,567 79
Total  General expenses.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per mile of road.	Per cent of expenses. 15.67 14.49 59.82 10.02	\$17,564 22 16,242 07 \$11,232 75 \$112,099 99 \$3,567 79 \$1,260 100
Total  General expenses.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. (Conducting transportation General expenses, including taxes.  Total operating expenses and taxes	Per cent of expenses. 15.67 14.49 59.82 10.02	\$17,564 22 16,242 07 \$11,232 75 \$112,099 99 \$3,567 79 \$1,260 100
Total  General expenses.  Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices). Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 183, Proportion of operating expenses and taxes for Michigan, main line.	Per cent of express. 15.67 14.49 59.82 10.02 100.00	\$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75  \$17,564 22 16,242 02 67,061 00 11,232 75  \$112,099 99  \$3,567 79 61.14 112,099 99
GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 183, Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.	Per cent of express. 15.67 14.49 59.82 10.02 100.00	\$3,150 00 2,044 20 116 63 367 60 491 29 91 17 182 07 4,789 79 \$11,232 75  \$17,564 22 16,242 02 67,061 00 11,232 75  \$112,099 99  \$3,567 79 61.14 112,099 99
Total  General expenses.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 183, Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings.	Per cent of expenses. 15.67 14.49 59.82 10.02 100.00	\$3,150 00 2,044 20 2,044 20 2,044 20 91 17 182 07 4,789 79 \$11,232 75 \$11,232 75 \$112,099 99 \$3,567 79 61.14 112,099 99
GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 183, Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings. Net earnings per mile of road	Per cent of exp*nses. 15.67 14.49 59.82 10.02 100.00	\$17,564 22 16,242 02 67,061 00 11,232 75 \$112,099 99 2,100 20
Total  General expenses.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices).  Other expenses  Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 183, Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings.	Per cent of exp*nses. 15.67 14.49 59.82 10.02 100.00	\$3,150 00 2,044 20 2,044 20 2,044 20 91 17 182 07 4,789 79 \$11,232 75 \$11,232 75 \$112,099 99 \$3,567 79 61.14 112,099 99
GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 183, Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan.  Percentage of expenses to earnings. Net earnings per mile of road	Per cent of exp*nses. 15.67 14.49 59.82 10.02 100.00	\$17,564 22 16,242 02 67,061 00 11,232 75 \$112,099 99 2,100 20

## DESCRIPTION OF ROAD.

Total length completed	Date when the road was opened for use between its present termini:		•
MAIN LINE.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  BAINCHES.  24.  Deal length completed.  DELANCHES.  Aske Linden from Junction to Lake Linden.  Jordal length of Tamarack mine to North Tamarack mine.  Jordal length of main line to Tamarack, Jr., mine.  Miles.  Miles.  BRANCHES.  Aske Linden from Junction to Lake Linden.  Jordal length of mannarack mine to North Tamarack mine.  Miles.  Miles.  BRANCHES.  24.  Amarack, Jr., from main line to Dollar Bay Lock  Jr., mine.  Michigan.  7.  Total length of too Main line to Dollar Bay Dock, Dollar Bay.  7.  Total length of branches owned by company in Michigan.  7.  Total length of troad belonging to this company in Michigan.  7.  Total length of road belonging to this company in Michigan.  7.  Total length of road belonging to this company in Michigan.  Proprietary or leased roads operated by this company.  Mineral Range in Michigan belonging to this company, computed as single track.  Auage of track, 3 feet.  Proprietary or leased roads operated by this company.  Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R.  connection at smalting works.  Number of bridges and trestles in Michigan.  Number length, fee  Wooden bridges.  Number of bridges and trestles in Michigan.  Number length, fee  Wooden trestles.  Total miles operated by the company.  Aggregate  Wooden trestles.  Total miles operated by the company.  Aggregate  Wooden trestles.  Total.  Orossings.—Ratiroad and Mighway.  What railroads cross your road at grade in this State, and at what locality?  Mineral range R. R. at Columet.  Lit. what crossings are interlocking and derailing switches in operation?  Oscoola.  What pattern or patterns have you adopted?  Pennylvania Steel Co.	From Hancock to Calumet. December 1, 1885. From Junction to Lake Linden, December 1, 1885.		
MAIN LINE.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  Miles.  BAINCHES.  24.  Deal length completed.  DELANCHES.  Aske Linden from Junction to Lake Linden.  Jordal length of Tamarack mine to North Tamarack mine.  Jordal length of main line to Tamarack, Jr., mine.  Miles.  Miles.  BRANCHES.  Aske Linden from Junction to Lake Linden.  Jordal length of mannarack mine to North Tamarack mine.  Miles.  Miles.  BRANCHES.  24.  Amarack, Jr., from main line to Dollar Bay Lock  Jr., mine.  Michigan.  7.  Total length of too Main line to Dollar Bay Dock, Dollar Bay.  7.  Total length of branches owned by company in Michigan.  7.  Total length of troad belonging to this company in Michigan.  7.  Total length of road belonging to this company in Michigan.  7.  Total length of road belonging to this company in Michigan.  Proprietary or leased roads operated by this company.  Mineral Range in Michigan belonging to this company, computed as single track.  Auage of track, 3 feet.  Proprietary or leased roads operated by this company.  Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R.  connection at smalting works.  Number of bridges and trestles in Michigan.  Number length, fee  Wooden bridges.  Number of bridges and trestles in Michigan.  Number length, fee  Wooden trestles.  Total miles operated by the company.  Aggregate  Wooden trestles.  Total miles operated by the company.  Aggregate  Wooden trestles.  Total.  Orossings.—Ratiroad and Mighway.  What railroads cross your road at grade in this State, and at what locality?  Mineral range R. R. at Columet.  Lit. what crossings are interlocking and derailing switches in operation?  Oscoola.  What pattern or patterns have you adopted?  Pennylvania Steel Co.	From Calumet to Allouez, March 12, 1887. From Allouez to Fulton, October 28, 1891.		
m Michigan, from Hancock to end of track	From Fution to end of track, July 20, 1000.		
Total length completed		Miles.	Miles.
BRANCHES.  aske Linden from Junction to Lake Linden			24.00
ake Linden from Junction to Lake Linden	Total length completed		24.00
is conserved by the company of this company.  Name, description and length of each:  Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R.  consoling at smalling works.  Total miles operated by the company of bridges and trestles in Michigan.  Number of bridges and trestles in Michigan.  Number 1 1.22  Number of bridges and trestles in Michigan.  Number 1 1.25  Vooden bridges.  Number 2 2 3 1.17  Total miles operated by the company of the company of the company of the company.  Number of bridges and trestles in Michigan.  Number 1 2 2 3 1.17  Total miles operated by the company of the company of the company.  Number of bridges and trestles in Michigan.  Number 1 2 2 3 1.17  Total miles operated by the company of the company.  Number of bridges and trestles in Michigan.  Number 1 2 2 3 1.17  Total miles operated by the company of the company.  Number 1 2 2 3 1.17  Total miles operated by the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the c			
Total length of branches owned by company	.ake Linden from Junction to Lake Linden. North Tamarack from Tamarack mine to North Tamarack mine	2.51 1.87 .66 .65	
Cotal length of branches owned by company in Michigan	Union Coal Dock from main line to Union Coal Dock, Dollar Bay	.75	
total length of road belonging to this company in Michigan			7.19
total length of road belonging to this company in Michigan	Total length of branches owned by company in Michigan	7.19	
Proprietary or leased roads operated by this company.  Name, description and length of each:  Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R. connection at smelting works.  23  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Number of bridges and trestles in Michigan.  Number.  Number.  Number.  16 2,291  ron bridges.  16 2,291  ron bridges.  16 2,291  ron bridges.  17  Total.  18  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral range R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where?  Over.  Hecla & Torch Lake R. R. at Calumet.  What prossings are interlooking and derailing switches in operation?  Vestattern or patterns have you adopted?  Pennsylvania Steel Co.	Cotal length of road belonging to this company	81.19 merated ingle track.	81.19 11.75 42.94
Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R. connection at smelting works.  Notal	Pauge of track, 8 feet.		
Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R. connection at smelting works.  Notal	Proprietary or leased roads operated by this company	·•	
Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R.  connection at smelting works			
Cotal	- · · ·	otal miles. I	n Michigan.
Total miles operated by the company 31.42 31.  Number of bridges and trestles in Michigan.  Number. length, fee to be being a second of the second at grade in this State, and at what locality?  Mat railroads cross your road at grade in this State, and at what locality?  Mineral range R. R. at Oscoola.  Hecla & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where?  Over. Hecla & Torch Lake R. R. at Calumet.  It what crossings are interlocking and derailing switches in operation?  Oscoola.  What pattern or patterns have you adopted?  Pennsylvania Steel Co.	connection at smelting works	.28	.23
Number of bridges and trestles in Michigan.  Number: length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee length, fee l	Total	.28	.28
Vooden bridges 16 2,291 ron bridges 16 2,291 Vooden trestles 5 1,178  Total 24 4,081  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Oscoola. Hecla & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where? Over. Hecla & Torch Lake R. R. at Calumet.  It what crossings are interlooking and derailing switches in operation? Oscoola.  What pattern or patterns have you adopted? Pennsylvania Steel Co.	Total miles operated by the company	81.42	81.42
Vooden bridges 16 2,291 ron bridges 16 2,291 Vooden trestles 5 1,178  Total 24 4,081  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Oscoola. Hecla & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where? Over. Hecla & Torch Lake R. R. at Calumet.  It what crossings are interlooking and derailing switches in operation? Oscoola.  What pattern or patterns have you adopted? Pennsylvania Steel Co.	Number of bridges and trestles in Michigan.		
Wooden bridges 16 2,291 ron bridges 5 3 Wooden trestles 5 1,172  Total 24 4,081  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Oscoola. What railroads cross your road either over or under your grade in this State, and where? Over. Heela & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where? Over. Heela & Torch Lake R. R. at Calumet.  It what crossings are interlocking and derailing switches in operation? Oscoola.  What pattern or patterns have you adopted? Pennsylvania Steel Co.	, ,	Number.	Aggregate length, feet.
Total	Wooden bridges		2,29114
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Oscoola. Heela & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where? Over. Heela & Torch Lake R. R. at Calumet.  It what crossings are interlocking and derailing switches in operation? Oscoola.  What pattern or patterns have you adopted? Pennsylvania Steel Co.	Wooden trestles		1,178
What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Osceola. Hecla & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where? Over. Hecla & Torch Lake R. R. at Calumet. It what crossings are interlocking and derailing switches in operation? Osceola.  What pattern or patterns have you adopted? Pennsylvania Steel Co.	Total	24	4,0811/4
What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Osceola. Hecla & Torch Lake R. R. at Calumet.  What railroads cross your road either over or under your grade in this State, and where? Over. Hecla & Torch Lake R. R. at Calumet. It what crossings are interlocking and derailing switches in operation? Osceola.  What pattern or patterns have you adopted? Pennsylvania Steel Co.	•		
Mineral range R. R. at Oscoola. Hecla & Torch Lake R. R. at Calumet. What railroads cross your road either over or under your grade in this State, and where? Over. Hecla & Torch Lake R. R. at Calumet. It what crossings are interlocking and derailing switches in operation? Oscoola. What pattern or patterns have you adopted? Pennsylvania Steel Co.	Crossings.—Rathroad and highway.		
What railroads cross your road either over or under your grade in this State, and where? Over. Heela & Torch Lake R. R. at Calumet. It what crossings are interlocking and derailing switches in operation? Osceola. What pattern or patterns have you adopted? Pennsylvania Steel Co.	What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Oscoola.		
Over.  Heela & Torch Lake R. R. at Calumet.  It what crossings are interlocking and derailing switches in operation?  Osceola.  What pattern or patterns have you adopted?  Pennsylvania Steel Co.			
it what crossings are interlocking and derailing switches in operation? Osceola. What pattern or patterns have you adopted? Pennsylvania Steel Co.	Over.	nd where	
Osceola. What pattern or patterns have you adopted? Pennsylvania Steel Co.			
Pennsylvania Steel Co.	Osceola.		
umber of crossings of highways at grade in this State	Number of crossings of highways at grade in this State		12 1 1
Iave safety guards been erected at overhead obstructions? Yes.	Have safety guards been erected at overhead obstructions? Yes.		
tre your frogs and guard rails blocked as required by act 174, session laws of 18837 Yes.		383 <b>7</b>	
	How are they treated?		

## Stations.

Number of stations on whole lines.	6
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	91 91
Classify your employés as per following list:	Number.
Brakemen	12
Conductors	6
Engineers Firemeu	7 6
Laborers	25
Shopmen Yardmen	25 6 4
Others	ක්
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	22.80
Give the number of miles required to complete fence both side of your track in Michigan, and the counties in which needed:	
Houghton county	
Keewenaw county 4.36	
Total miles required	39.58
Road bed and track.	
Number of track sections in Michigan.  Average length of sections (miles).  Average number of men in each section gang.  Number of new ties put in whole line during the year.	7
Average number of men in each section gang	4
Number of new ties put in whole line during the year.	5,886
Number of new ties put in track in Michigan.  Average number of new ties per mile of road	5,886 189
Avorage number of new clos per intre or road	
ROLLING STOCK.	
	Present esti-
Number. m	nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender.   7   Number of locomotives of 20 to 30 tons weight, exclusive of tender.   1   1   1   1   1   1   1   1   1	\$49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender.   7   Number of locomotives of 20 to 30 tons weight, exclusive of tender.   1   1   1   1   1   1   1   1   1	\$49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender.         7           Number of locomotives of 20 to 30 tons weight, exclusive of tender.         1           Total.         8           Number of passenger cars—8-wheel, including official cars         16           Number of pox freight cars         16           Number of ore cars         99           Number of ore cars         166           Number of oonductors way cars         3           Other cars as follows: (Snow plow)         1           Total         289           Number of locomotives equipped with power brakes         7	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender.         7           Number of locomotives of 20 to 30 tons weight, exclusive of tender.         1           Total.         8           Number of passenger cars—8-wheel, including official cars.         16           Number of box freight cars.         16           Number of platform cars.         99           Number of conductors way cars.         3           Other cars as follows: (Snow plow).         1           Total.         289           Number of locomotives equipped with power brakes.         7           Number of passenger train cars equipped with power brakes.         4	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender. 7  Number of locomotives of 20 to 30 tons weight, exclusive of tender. 7  Total. 8  Number of passenger cars—8-wheel, including official cars 15  Number of pox freight cars 16  Number of box freight cars 16  Number of one cars 16  Number of one cars 166  Number of one cars 166  Number of conductors' way cars 3  Other cars as follows: (Snow plow) 1  Total 289  Number of locomotives equipped with power brakes 7  Number of passenger train cars equipped with power brakes 4  What patterns of power brakes have you in use, and number of locomotives and cars with each?	sted value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 25159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender. 7  Number of locomotives of 20 to 30 tons weight, exclusive of tender. 1  Total. 8  Number of passenger cars—8-wheel, including official cars 16  Number of passenger cars—8-wheel, including official cars 16  Number of locomotives 16  Number of passenger cars—8-wheel, including official cars 16  Number of passenger cars—8-wheel, including official cars 16  Number of locomotives 16  Total 16  Number of conductors way cars 16  Number of conductors way cars 16  Total 289  Number of locomotives equipped with power brakes 17  Number of passenger train cars equipped with power brakes 17  Number of passenger train cars equipped with power brakes 17  Locomotives, Westinghouse air brake, 1; locomotive, American Brake Co., vacuum brake, 6 cars, Westinghouse air brake, 4.	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 \$159,500 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 \$159,500 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender. 7  Number of locomotives of 20 to 30 tons weight, exclusive of tender. 1  Total. 8  Number of passenger cars—8-wheel, including official cars 16  Number of pasting to cars 16  Number of pation mears 99  Number of ore cars 166  Number of ore cars 3  Other cars as follows: (Snow plow) 1  Total 239  Number of locomotives equipped with power brakes 7  Number of passenger train cars equipped with power brakes 4  What patterns of power brakes have you in use, and number of locomotives and cars with each?  Locomotives, Westinghouse air brake, 1; locomotive, American Brake Co., vacuum brake, 6 cars, Westinghouse air brake, 4.  Are your freight cars being equipped with automatic couplers as required by act No. 147, so of 1885, as amended by act No. 88, session laws of 1887?	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 \$159,500 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 \$159,500 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	\$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 \$159,500 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	sted value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 1,500 00 2559,500 00  \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	sted value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,250 00 1,500 00 200 00 \$159,500 00  \$159,500 10 \$159,500 10 \$159,500 10 \$159,500 10
Number of locomotives of more than 30 tons weight, exclusive of tender	sted value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 1,500 00 2559,500 00  \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	sted value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,750 00 62,750 00 1,500 00 200 00 \$159,500 00  stipping a management of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the

#### Passenger traffic.—Road all in State of Michigan.

Number of least recommended coming control	Numbers.	Miles.	Rate.
Number of local passengers carried, earning revenue  Number of passengers carried one mile	60,619 878,266	6.157	
Average amount received from each passenger			90 19.482
Average receipts per mile for local passengers			08.168
Freight traffic.—Road all in State of 1	lichigan.		
	Tons.	Miles.	Rate
Number of tons of local freight carried, earning revenue  Total mileage of local freight	1,118,980	A 517 9AA	
Total freight mileage or tons carried one mile		6,517,866	
Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul		5.82 <u>4</u> 5.824	
Average amount received for each ton haul	<b>~</b>		90 14.729 02.528
Average receipts ton per mile for all freight.			02.528

## FREIGHT TRAFFIC MOVEMENT.-BOAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

Commodity	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commonly.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture: Grain	478 669		1,099 473 669 253 192	.10 .04 .06 .02	
Products of animals: Live stock Dressed meats	8 23		, 8 23		
Products of mines: Bituminous coal Ores, copper rock	58,585 822,924 5,977		59,585 822,924 5,977	4.79 78.54 .54	
Products of forest: Lumber Logs	14,091 11,189		14.091 11,189	1.28 1.00	
Manufactures: Iron, pig and bloom. Iron and steel rails. Other castings and machinery. Bar and sheet metal. Cement, brick and lime. Wagons, carriages, tools, etc. Wines, liquors and beera.	56 843 127		435 729 1,516 56 843 127 874	.04 .06 .14 .01 .07 .01	
Merchandise	7,665		7,665	.68	
Miscellaneous: Other commodities not mentioned above	196,252		196,252	17.54	
Total tonnage.	1,118,980		1,118,980	100.00	

## ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Co. Hancock & Calumet R. R. receives \$20 00 per month. They do a general business. We take their freight at our depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 10 miles; owned by Mineral Range R. R. Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR, 1896.

#### INJURED.

January 3, P. McCarthy, brakeman, Hancock. Slightly scalded by escaping steam from engine. January 20, T. Rentenbach, brakeman, Hancock. Finger pinched; coupling. April 18, Israel Pilky, Red Jacket. Flesh torn off fiager; coupling. May 27, Geo. Harris, brakeman, Osceola. Finger pinched; coupling. November 25, John Hohner, brakeman, Mills. Right hip bruised; coupling. December 8, Richard O'Neal, trespasser, Calumet. Lying on track; struck by train; intoxicated.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.	Injured.				
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
Coupling cars					4 1		
Trespassers on tracks.						1	
Total					5	1	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year.	6
Number of casualties purely accidental	5
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured.	1

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

•	Killed.	Injured.	Total.
Brakemen		5	5
Total		5	5

STATE OF MICHIGAN, \ COUNTY OF MARQUETTE, \ \ 88.

A. E. Delf, auditor of the Hancock & Calumet Bailroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. of R. R.]

Signed.

A. E. DELF, Auditor.

Subscribed and sworn to before me this 1st day of April, A. D. 1897.

[L. S.]

CHARLES A. PAYNE.

#### OF THE

## INDIANA & LAKE MICHIGAN RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed March 30, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. J. TURNER, St. Louis, Mo.
Secretary, GEORGE E. FARRINGTON, Terre Haute, Ind.
Treasurer, B. B. THOMPSON, Terre Haute, Ind.
Transfer Agent, GEORGE E. FARRINGTON, Terre Haute, Ind.
Vice President, JAMES MCCREA, Pittsburgh, Pa.
Assistant Secretary, W. G. PHELPS, St. Louis, Mo.

#### DIRECTORS.

J. J. TUENEE, St. Louis, Mo.

JAMES MCCREA, Pittsburgh, Pa.

JNO. E. DAVIDSON, Pittsburgh, Pa.

W. B. MCKEEN, Terre Haute, Ind.

GEO. E. FARRINGTON, Terre Haute, Ind.

Terms expire January 13, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 30, 1838.

Number of stockholders at date of last election: 6.

Number of stockholders in Michigan at same date: None.

Amount of full paid stock held in Michigan at same date: None.

Date of annual meeting of stockholders: First Wednesday after second Tuesday in January.

Fiscal year of company ends October Sist.

General offices of the company are located at Terre Haute, Ind.

#### REMARKS.

Indiana & Lake Michigan Ry. Co., of Indiana, chartered July 2; 1887; Indiana & Lake Michigan Ry. Co., of Michigan, chartered August 8, 1897, under the laws of each State. These two companies were consolidated March 30, 1838, as the Indiana & Lake Michigan Ry. Co., whose property and franchises was leased January 6, 1830, to the Terre Haute & Indianapolis R. R. Co. for 99 years, lessee guaranteeing \$480,000.00, first mortgage, 5% bonds, retaining 75% of gross earnings for operating, and applying 25% of gross earnings to payment of taxes, interest on bonds, and expense of maintaining corporate organisation, any surplus derived from the 25% to be paid to lessor. The lessee is the owner of the stock of this company. Interest due September 1, 1896, on first mortgage bonds is in default. Lessee falling to meet guarantee, lessees property was placed in hands of receiver, November 13, 1896, and this property by virtue of lease is now in his control.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$100.00	\$800,000 00
Average price received per share 100 00  Number of shares issued 8,000	
Number of shares issued	
Total amount paid in, as per books of the company	800,000 00
Paid in per mile of road owned by company	\$20,361 41

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

		FUNDED 1	DEBT.		
Class, character and date of i	88 <b>u</b> e.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage, Sept. 1, 1889		. 5% Mar. and Sept C		Cent. Trust Co. New York	\$480,000 00
	1	unfun ded	DEBT.		
For what incurred.	Is the same to be funded or how liquidated.			Amount.	
For construction				\$201,218 49 58,674 88 12,000 00	
Total unfunded debt					\$271,898 87
		ECAPITUL	ATION.		
Total funded debt Total unfunded debt					\$480,000 00 271,893 87
Total debt liabilities				· · · · · · · · · · · · · · · · · · ·	\$751,893 87
Amount of debt liabilities per mile Total amount of stock and debt Stock and debt per mile of road					. 1,551,893 37
	INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due e Was it paid for the last year? On If interest is in default state the y Interest due September 1, 1896, in	ly one-hal	lf paid.	- 4-11		•
CC	OST OF I	ROAD AN	D EQUIPMENT.		
TOTAL COST FOR CONSTRUCTION	ON AND BO	TUBERTIUS	OF BOAD AND BRA	NOHES BUILT BY O	MPANY.
Total expended for construction Average cost of construction per n Proportion of cost of construction	aile of ros	d (not inc	luding sidings) 89	.29 miles	\$1,431,038 44 86,422 46 908,709 41
	DESC	RIPTION	OF ROAD.		
Date when the road was opened fo	r use bet	ween its pr	esent termini: A	ugust 15, 1890.	
		MAIN LI	NE.	Wales	Willer
Length completed in Michigan In other states	• • • • • • • • • • • • • • • • • • •	•		Miles. 25.00 14.24	
Total length completed				·····	39.29
		BRANCE	res.		
Aggregate length of sidings, spurs Same in Michigan Aggregate length of tracks belong Same in Michigan	ing to this	company	computed as sin	4.55	3 . 45.49
Gauge of track, 4 feet 9 inches.					====

STATE OF MISSOURI, }88.

J. J. Turner, president, and W. G. Phelps, assistant secretary, of the Indiana & Lake Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters therein contained of said company, on the thirty-first day of December, A. D. 1897, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

J. J. TURNER, President, W. G. PHELPS, Assistant Secretary.

Subscribed and sworn to before me this 28rd day of March, A. D. 1897.

[L. S.

F. A. BANISTER, Notary Public.

OF THE

## TERRE HAUTE & INDIANAPOLIS RAILROAD COMPANY.

#### LESSEE

#### INDIANA AND LAKE MICHIGAN RAILWAY.

For the year ending December 81, 1896.

[Filed April 2, 1897.]

## OFFICERS OF TERRE HAUTE AND INDIANAPOLIS RAILROAD COMPANY, WITH LOCATION OF OFFICES.

President, JAMES MOCREA, Pittsburg, Pa.

Vice President and General Manager, J. J. TURNER, St. Louis, Mo.

Secretary, GEO. E. FARRINGTON, Terre Haute, Ind.

Auditor, W. S. RONEY, Terre Haute, Ind.

Division Superintendent, F. T. HATCH, Terre Haute, Ind.

Chief Engineer, F. T. HATCH, Terre Haute, Ind.

Superintendent of Telegraph, A. M. SCHOYER, Pittsburg, Pa.

General Passenger Agent, E. A. FORD, Pittsburg, Pa.

General Freight Agent, N. W. TAYLOR, St. Louis, Mo.

Attorney, JNO. G. WILLIAMS, Indianapolis, Ind.

Receiver, V. T. MALOTT, Indianapolis, Ind.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 30, 1838.

Number of stockholders at date of last election: 5.

Date of annual meeting of stockholders: Second Wednesday in December.

Fiscal year of company ends October 31.

General offices of the company are located at Terre Haute, Ind.

# ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.

PABBENGEE BARNINGS.		
Main line and branches: Local fares Through fares	\$10,352 28 1,741 51	
Total passenger fares.	\$12,098 79	
Express and baggage	566 78 1,690 <b>36</b>	
Total passenger department earnings		\$14,350 93
Per train mile	\$0 88 572 89	
FREIGHT HARNINGS.		
Main line and branches: Local traffic Through traffic	\$8,102 51 20,835 04	
Total freight department earnings		28,937 55
Per train mile	\$1 86 1,155 19	

# ANALYSIS OF EARNINGS.—ENTIRE LINES.

PASSENGER HARNINGS.	
Main line and branches:       \$14         Local fares       \$14         Through fares       2	,460 41 ,419 95
Total passenger fares \$16	,880 36
	615 25 ,857 74
Total pastenger department earnings	\$20,858 85
Per train mile. Per mile of road	<b>\$</b> 0 84 518 08
FREIGHT BARNINGS.	
Main line and branches: Local traffic	,118 81 ,508 45
Total freight department earnings	46,616 76
	\$1 40 ,186 48
Total transportation earnings, entire line	• •
	,704 51 72
	,704 51 72 ,288 48 ,728 08
Total income from all sources Proportion of income for Michigan	\$66,970 11 48,288 48
ANALYSIS OF EXPENSES.	
Repairs of roadway.  Renewals of rails.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of dooks and wharves.  Repairs and renewals of decks and wharves.  Repairs and renewals of telegraph  Stationery and printing.  Other expenses.	599 08 3,188 54 209 57 1,082 71 509 84 335 95 97 84 97 84
Total	\$16,054 42
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	\$285 28 1,021 30 162 18 3,775 19 209 82 34 92 6 22 163 90
Total	<b>\$5,638 76</b>
CONDUCTING TRANSPORTATION.	
Superintendence Ragine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives. Train service Train supplies and expenses	\$599 81 8,317 27 4,172 05 612 73 114 09 84 05 5,423 58 631 22

Switchmen, flagmen and watchmen Telegraph expenses Station service Station supplies Car mileage—balance Hire of equipment Loss and damage Injuries to persons Clearing wrecks Advertising Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses		\$2,937 49 1,701 07 9,036 48 968 90 6,350 22 3,382 23 40 84 1 35 85 52 2,057 00 2,428 15 1,394 48 008 16 6 26
GENERAL EXPENSES.		
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Law expenses Stationery and printing (general offices) Other expenses		\$415 64 691 71 45 41 191 04 82 16 77
Total		\$1,426 73
RECAPITULATION OF EXPENSES.	_	_
	Per cent of expenses.	
Maintenance of way and structures	21.60	\$16,054 42
Maintenance of equipment.	7.59 68.89	5,688 76 51 188 02
Conducting transportation	1.92	1,426 78
Total operating expenses and taxes.	100.00	\$74,307,98
Operating expenses and taxes per mile of road	546 miles.	\$1,891 27 80
Total proportion of expenses for Michigan		847,876 27
Percentage of expenses to earnings,	111	
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From South Bend, Ind., to St. Joseph, Mich., Aug. 4, 1890.		
MAIN LINE.		201-
In Michigan, from Indiana State Line to St. Joseph, Mich.	Miles. . 25.05	Miles.
In Indiana, from Michigan State Line to South Bend, Ind.	14.24	
Total length completed		39.29
Total length of road belonging to this company in Mishigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	25.06 5.51	
Aggregate length of tracks in Michigan belonging to this company, computed track	as single	80.56
Gauge of track, 4 feet 8½ inches.		
Number of bridges and trestles in Michigan.		
Thereoff of the together the michigan.		Aggregate
Wooden treatles	Number. 28	length, feet. 1,905
•		

## Crossings.—Railroad and highway.

What railroads cross your road either over or under your grade, in this State, and where? Over: Michigan Central Railroad at Gallen.	
Number of crossings of highways at grade in this State	24 2
Number of crossings of highways over or under railroad: Over 4.	
Number of highway bridges 18 feet above track: Four.	•
Have safety guards been erected at overhead obstructions? At M. C. crossing.	
Are your frogs and guard rails blocked as required by act 174, session laws of 18897 Not all.	
How are they treated? Wooden blocking placed between the rails.	
Stations.	
Number of stations on whole lines.	10
Same in Michigan	6
	====
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	61 54
	W
Classify your employée as per following list:  Baggagemen	Number. 2
Brakemen	
Conductors	3
EngineersFiremen	4 3 4 14 8 5
Laborers	14
Shopmen Yardmen	Š
Others	<b>1</b> Ŏ
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	45.05
How many miles of fencing have you?	
and the counties in which needed: In Berrien county	5.05
<del>-</del>	
Road bed and track.	
Number of track sections in Michigan	4
Average lengths of sections, miles	<b>6</b> 8
Average number of men in each section gang.  Number of new ties put in whole line during the year.	7.326
Number of new ties put in track in Michigan  Average number of new ties per mile of road,	4,650 186
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, liner feet	16 1
MILEAGE, TRAFFIC, ETC.	
Train mileage.  Entire lines. In	. Michi
	87,776
Miles run by passenger trains during the year59,260Miles run by freight trains during the year83,266	21,217
Markal miles and Amelian committee and an arrange	
Total mileage of trains earning revenue	58,993

# Passenger traffic.—Entire lines.

	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue	2,975		
Total number of passengers carried, earning revenue	. 82,548		
Number of passengers carried one mile	. 802,882	25	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Estimated cost of carrying each passenger one mile.			\$0 52 02. 02.1 02.1 04.8
Passenger traffic.—In State of Mich	iaan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue	1,8 <b>96</b> 18,851		
Total number of passengers carried, earning revenue	20,747		
Number of passengers carried one mile	512,207	25	
Average distance carried  Average amount received from each passenger  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per mile for local passengers  Estimated cost of carrying each passenger one mile			90 58 02.4 02.4 02.4 04.8
Freight traffic.—Entire lines.			
<b>-</b>	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	92,931 31,081		
Total tons of freight carried, earning revenue	124,012		
Total milage of through freight		8,275,518 1,011,514	
Total freight mileage or tons carried one mile		4,287,082	
Average ton haul for through freight		35.25 82.54	
Average ton haul for all freight		84.57	
Average amount received for each ton haul			#0 38 01.02 01.30 1.09 .89
Freight traffic.—In State of Michig	jan.		
N N Admir and D N Market M	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	59,290 19,830		
Total tons of freight carried, earning revenue	79,120		
Total mileage of through freight		2,089,680 645,346	
Total freight mileage or tons carried one mile		2,785,026	
Average ton haul for through freight.  Average ton haul for local freight.		85.25 32.54	
Average ton haul for all freight.		34.57	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight Estimated cost of carrying one ton one mile			90 87 01.00 01.26 01.06 .89
•		-	

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freigh	t tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	161	1,664	1,825	1.47
Flour Other mill products	1,057	81,152	82,209	26.07
Other mill products	253 46	9,520	9,778	7.88
Hay		432	478	.39 .01
Tobacco		98	93	.01
Cotton Fruit and vegetables	9,840	''	9,840	7.98
Other articles	39	780	819	.70
Products of animals:				
Live stock	24	112	186	.11
Live stock		67	67	.01
Poultry, game and fish		18	13	
Wool	28	74 567	97 567	.01 .50
Other articles			26	.00
Products of mines:			1	
Anthracite coal		8,532	8,582	2.85
Bituminous coal		10,815	10,815	8.72
Coke		42	42	
CokeStone, sand, and other like articlesOther articles	845 942	3,305 374	4,150 1,316	3.35 1.06
Products of forest:	1			
Lumber	3,801	18,676	17,477	14.09
Other articles	4,626	6,008	10,634	8.57
Manufactures: Petroleum and other oils	87	101	138	.11
Snee	97	853	390	.80
Iron, plg and bloom Iron and steel rails Other castings and machinery	227	2,257	2,484	2.00
Iron and steel rails		121	121	.10
Other castings and machinery	76	628	704	.60
Bar and sheet metals	1 68	110	173	.12
Cement, brick and lime	243	250	493	.40
Agricultural implements	56	350	406	.80
Wagons, carriages, tools, etc.	109	858	467	.40
Wines, liquors and beers		168	168	.11
Household goods and furniture	52	960 2,828	1,012	.81
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beera. Household goods and furniture. Other articles	l,	, , , ,	8,586	2.89
Merchandise	4,105	2,584	6,689	5.89
Miscellaneous:				
Other commodities not mentioned above	1,661	1,584	8,195	2.74
Total tonnage	31,081	92,981	124,012	100.00

# MICHIGAN RAİLROAD RETURNS, 1896.

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# Company's material excluded.

0	Freight originating	Freight re- ceived from connecting	Total freigh	t tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	115	1,145	1,260	. 1.59
Flour Other mill products	900 175	20,300 6,125	21,200 6,800	26.79 7.96
Hay	79	236	815	.40
Tobacco		63	63	.08
Cotton		46	46	.06
Cotton Fruit and vegetables	6,880		6,880	8.07
Other articles		519	519	.64
Products of animals:				
Live stock		66	66	.08
Other packing house products Poultry, game and fish		67	67	.08
Wool		18 97	13 97	.02
Hides and leather		567	567	. 18 . 72
Other articles		26	26	.08
Products of mines:				
Anthracite coal		1,932	1.932	2.44
Bituminous coal Stone, sand and other like articles		6,815	6.815	7.98
Stone, sand and other like articles	625	1,875	2,500	8.16
Other articles	200	619	819	1.04
Products of forest:			1	
Lumber	2,526	7,581	10,107	12.77
Other articles	1,100	5,220	6,320	7.96
Manufactures:				
Iron, pig and bloom	130	1,491	1,621	2.00
Iron, pig and bloom		121 330	121 440	.18 .56
Bar and sheet metal	110	102	102	.18
Cement, brick and lime			315	• .40
Agricultural implements	1	200	200	.25
Wagons, carriages, tools, etc		315	815	.25
Wines, liquors and beers		100	100	.13
Wagons, carriages, tools, etc		625	625	.79
Other articles	•	828	8,586	4.54
Merchandise	4,020	769	4,789	6.05
discellaneous:			1	
Other commodities not mentioned above	712	1,282	1,994	2.52
Total tonnage	19,830	59,290	79,120	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Adams Express Co. @ 47%% of gross receipts. The kind of business done is merchandise usually carried by express companies. Freight received at stations.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

25.1 miles poles owned jointly by I. & L. M. R. R. Co. and Western Union Telegraph Co. 50.2 miles wire owned by I. & L. M. R. R. Co. 25.1 miles wire owned by Western Union Telegraph Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

October 15, A. W. White, farmer, near Galien. Attempted to cross road ahead of passenger train.

June 22, Geo. Broady, brakeman, Glendora, Employé; coupling cars.

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	1
Number resulting from lack of caution, carelessness, or misconduct.	2

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen		1	1
Total		1	1

STATE OF INDIANA, } 88.

Volney T. Malott, receiver of the Indiana & Lake Michigan Railway, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

VOLNEY T. MALOTT. Receiver.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

ARTHUR V. BROWN,

[L. S.]

Notary Public, Marion County, Indiana.

#### OF THE

# IRON RANGE & HURON BAY RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 81, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ALBERT L. STEPHENS, Detroit, Mich. Vice President, FREMONT WOODRUFF, Detroit. Mich. Secretary, MARTIN G. BORGMAN, Detroit, Mich. Treasurer, THEO. D. BUHL, Detroit, Mich. Attorney. H. E. BOYNTON, Detroit, Mich.

## DIRECTORS.

ALBERT L. STEPHENS, 1018 Union Trust Building, Detroit.
THEO. D. BUHL, Buhl Sons & Co., Detroit.
HENRY STEPHENS, Telephone Building, Detroit.
WM. H. STEVENS, 44 Moffat Building, Detroit.
J. M. THURBER, Buhl Sons & Co., Detroit.
FREMONT WOODRUFF, 44 Moffat Building, Detroit.
WM. T. DEGRAFF, Detroit National Bank, Detroit.
Term expires February, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 30, 1890.

Number of stockholders at date of last election: 10.

Number of stockholders in Michigan at same date, 10.

Amount of full paid stock held in Michigan at same date: \$314,000

Date of annual meeting of stockholders: First Wednesday in February.

Fiscal year of company ends: January 31

General offices of the company are located at 1018 Union Trust Building, Detroit, Mich.

#### REMARKS:

Road not finished, and was never operated.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		\$100 00	9	1,000,000 00
Par value of shares. Number of shares issued	7,640	•	<b>8</b> 814.000 00	
Amount paid in on common	500		<b>4</b> 011,000 00	
Total amount paid in as per books of the company	8,140			814,000 00
Paid in per mile of road owned by company, 34 miles				28,941 00

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

				1
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
Mortgage bonds, Nov. 18, 1893 (50 yeasemi-annual interest payable in go \$1,000 each	rs, ld, 5%	Jan. 1, 1944	New York City	\$870,000 00
321 bonds, \$155.84 each 49 bonds, 125.00 each				50,024 6 6,125 0
Total funded debt				\$426,149 6
	UNFUNDED	DEBT.		
For what incurred.	s the same to	o be funded or ho	w liquidated.	Amount.
For miscellaneous				\$26,264 2
Total funded debt Total unfunded debt Total debt liabilities				
otal amount of stock and debt took and debt per mile of road, 34 miles				1.286.413.8
Cotal amount of stock and debt	F ROAD AN	D EQUIPMENT.	hes built by compa	. 1,285,413 8; . 87,247 44 
Total amount of stock and debt	FROAD AN equipment of ipment	D EQUIPMENT.	hes built by compa	. 1,286,413 86 . 87,247 46 
Cotal amount of stock and debt	F ROAD AN equipment of ipment ing sidings), SCRIPTION	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	. 1,285,413 8; . 87,247 44 
Cotal amount of stock and debt	F ROAD AN equipment of ipment ing sidings), SCRIPTION	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 54 \$4,937 55
Cost amount of stock and debt	F ROAD AN equipment of ipment ing sidings), SCRIPTION	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 94 34,987 53
Cost amount of stock and debt	F ROAD AN equipment of ipment ing sidings), SCRIPTION	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 94 34,987 53
Cost amount of stock and debt	PROAD AN equipment of ing sidings) SCRIPTION MAIN L on iron mine	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 9 34,987 5
COST Of Total amount of stock and debt	PROAD AN equipment of ing sidings) SCRIPTION MAIN L on iron mine	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 94 34,987 53
Total cost for construction and average cost per mile of road (not includ average cost per mile of road (not includ not include).  DEI  In Michigan, from Huron Bay to Champi If north of parallel 44 of latitude: Between latitude 48 and 47. Give date road commenced to be built: September, 1880. Give date road completed: Not completed. The date road commenced to be operated.	PROAD AN equipment of ing sidings) SCRIPTION MAIN L on iron mine	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 54 \$4,937 55
Total amount of stock and debt	PROAD AN equipment of ing eidings) SCRIPTION MAIN L on iron mine	D EQUIPMENT.  f road and branc , 34 miles  OF ROAD.	hes built by compa	ny. \$1,187,875 94 34,987 53

#### ROLLING STOCK.

	Number. n	Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender Number of platform cars (36 feet long, low platform)	2 20	\$25,000 00 9,540 00
6 hand care, \$270; 4 push cars, \$100; 2 iron laying care, \$140		510 00
Total		\$35,050 00
Number of locomotives equipped with power brakes		2

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse air brake, automatic.

STATE OF MICHIGAN, COUNTY OF WAYNE, \$88.

Martin G. Borgman, the secretary of the Iron Range & Huron Bay Railroad Company, being duly sworn deposes and says that he has personally prepared the foregoing statements and declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

MARTIN G. BORGMAN.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

fr. s.

CRAPO C. SMITH.

Notary Public, Wayne County, Mich.

#### OF THE

# LAKE SHORE & MICHIGAN SOUTHERN RAILWAY CO.

For the year ending December 81, 1896.

[Filed March 26, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Vice President, E. D. WORCESTER, New York, N. Y. Secretary, E. D. WORCESTER, New York, N. Y. Auditor, R. H. HILL, Cleveland, Ohio. Treasurer, E. D. WORCESTER, New York, N. Y. General Manager, W. H. CANNIFF, Cleveland, Ohio. General Superintendent, P. S. BLODGETT, Cleveland. Ohio. Division Superintendents:

TEACY W. NILES, Supt. Eastern Division, Buffalo, N. Y. J. K. BUSSELL, Supt. Toledo Division, Cleveland, Ohio. L. E. JOHNSON, Supt. Michigan Division, Toledo, Ohio. A. B. NEWELL, Supt. Western Division, Toledo, Ohio. A. H. SMITH, Supt. Franklin Division, Youngstown, Ohio. H. A. WORCESTER, Supt. Detroit Division, Detroit, Mich. M. L. REYNOLDS, Supt. Lansing Division, Hillsdale, Mich. P. ALLEN, Supt. Kalamasco Division, Grand Rapids, Mich. Chief Engineer, E. A. HANDY, Cleveland, Ohio. Superintendent of Telegraph, WM. KLINE, Toledo, Ohio. Local Treasurer, N. BARTLETT, Cleveland, Ohio. General Passenger Agent, A. J. SMITH, Cleveland, Ohio. General Traffic Manager, G. J. GRAMMER, Cleveland, Ohio.

#### DIRECTORS.

General Counsel, GEORGE C. GREENE, Cleveland, Obio.

W. K. VANDEBILT, New York, N. Y. S. F. BARGER, New York, N. Y. H. McK. Twombly, New York, N. Y. C. M. REED, Erie, Pa. Terms expire, May, 1897. F. W. VANDERBILT, New York, N. Y. E. D. WORCESTER, New York, N. Y. D. W. CALDWELL, Cleveland, Ohio. C. M. DEPEW, New York, N. Y. JNO. DEKOVEN, Chicago, Ill. Terms expire, May, 1898. C. VANDERBILT, New York, N. Y. D. O. MILLS, New York, N. Y. JAS. H. REED, Pittsburg, Pa. I. M. SCHOONMAKER, Pittsburg, Pa. Terms expire, May, 1899.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 1846.
Number of stockholders at date of last election: 3,872.
Number of stockholders in Michigan at same date: 27.
Amount of full paid stock held in Michigan at same date: \$257,750.
Date of annual meeting of stockholders: First Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Cleveland, Ohio.

GENERAL EXHIBIT.	Debit. Credit.
Total earnings from operation	
Total expenses including taxes	\$18,726,154 67
Net income	\$6,467,802 87
Interest on funded debt	50 00
	\$3,800,214 89
Balance applicable to dividends	2,667,588 48 2,967,990 00 300,401 52
Balance (profit and loss) last year Items not included in above, as follows: Interest and dividends on assets. Accounts written off	11,637,485 08 354,811 77
Balance forwarded to next year	11,535,220 14
ANALYSIS OF CAPITAL STOCK.	<del></del>
Amount authorized by charter or articles of association	\$50,000,000 00
Number of shares issued 50,000 Amount paid in on common	00 00 \$49,486,500 00
Amount paid in on guaranteed	<del></del>
Total amount paid in, as per books of the company	\$50,000,000 00
Paid in per mile of road owned by company, 854.54 miles	58,511 01

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
July 1, 1870, L. S. & M. S. consol. 1st mort-gage  Apr. 1, 1869, L. S. Ry. dividend  Apr. 1, 1869, Buffalo & Eric mortgage  Dec. 1, 1873, L. S. & M. S. consol. 2d mortgage  Total funded debt (L. S. & M. S. proper)	74 74 74 74	July 1, 1900 April 1, 1899 April 1, 1896 Dec. 1, 1908	New York office and Union Trust Com- pany, N. Y.	\$14,440,000 0 1,855,000 0 2,705,000 0 24,692,000 0
Aug. 1, 1876, Det., Mon. & Toledo 1st mort- gage Jan. 1, 1890, Kal. & Wh. Pigeon 1st mort- gage	7≰	Aug. 1, 1908 Jan. 1, 1940		924,000 (
Total funded debt				\$44,516,000

## RECAPITULATION.

Total funded debt	\$44,516,000 00
Amount of debt liabilities per mile of road 1,117.51 miles	39,884 99
Total amount of stock and debt	98,846 00
GENERAL BALANCE SHEET,—DB,	
Construction account         \$66,700,00           Equipment account         17,800,00	10 00
Other investments:         \$1,381,60           Netroit, Monroe & Toledo R. R.         \$1,381,60           Kalamazoo & White Pigeon R. R.         610,00           Northern Central Michigan R. R.         1,357,00           Detroit & Chicago R. R.         942,35           Silver Creek & Dunkirk R. R.         484,20           Jamestown & Franklin R. R.         2,074,65           Stocks, etc., of other companies         13,161,35	00 04 01 72 60 98 81 79
Cash items:       \$1,825,01         Bills receivable       38,21         Due from agents       196,09	20,011,334 48 19 57 11 14 99 35
Other assets:  Materials and supplies	18 45 18 92
Total.	\$108,706,784 50
GENERAL BALANCE SHEET.—Cr.	
Capital stock	\$50,000,000 00 44,516,000 00
Unfunded debt:  Dividends unpaid	99 94 14 42 2,655,514 96
Profit and loss or income accounts	11,535,220 14
Total	\$108,706,784 50
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by con	np .ny.
Total expended for construction and equipment.  Average cost per mile of road (not including sidings) 834.54 miles  Proportion of cost for Michigan.	\$84,000,000 00 98,298 50 18,312,517 66

ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.
PASSENORE MARNINGS.

		FASSBRUEE BARNINGS	MARNINGS.					
	Local fares.	Through fares.	Total passen- ger fares.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.
Main line and branches	\$253,542 60	\$41,822 62	\$295,365 22	\$84,575 07	\$258,916 88	\$638,857 12		\$3,408 97
Leased or proprietary roads: Detroit, Monroe & Toledo. Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan Fort Wayne & Jackson Detroit, Hillsdale & Southwestern Detroit, & Chicago Sturgis, Goshen & St. Louis.	112,121 39 51,041 70 31,968 22 37,788 05 36,444 95 17,180 59 11,543 66 2,494 04	1,582 04 855 16 855 16 86 02 12 88 7 187 7 187	112,602 43 52,434 36 82,824 38 87,824 38 17,182 61 11,531 62 2,494 94	10,793 33 4,118 52 1,718 27 1,717 25 1,480 24 1,480 24 193 52 161 50	11,288 53 8,224 62 5,148 74 8,209 14 4,207 06 3,667 36 588 28	13, 164 29 40, 176 89 40, 151 89 42, 450 46 42, 450 46 16, 157 91 3, 254 121 127 431 127 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 137 431 1		2,459 17 1,108 24 1,109 78 107 37 852 852 288 82 808 88
Total passenger department earnings	\$553,076 18	\$44,708 17	\$597,784.35	\$109,292 63	\$299,920 36 \$1,006,997 34	11,006,997 34	<b>81</b> 08	\$1,750 48
		FREIGHT EARNINGS.	ARNINGS.					
		Local traffic.	Through traffic.	Total traffic	Other sources, freight department.	Total.	Per train mile.	Per mile of road.
Main line and branches		\$113,142,60		\$413,142 60	8670 76	\$413,813 36		\$2,204 89
Lensed or proprietary roads: Detroit, Mouroe & Toledo Kalamazoo, Allegau & Grand Rapids Kalamazoo, White Pigeon Northern Central Michigan. Fort Wayne & Jackson Detroit, Hillsdale & Southwestern Detroit & Chicago. Stargis, Goshen & St. Louis		348,000 18 52,825 63 52,825 63 82,843 40 38,073 40 38,141 39 12,173 35 20,387 52 1,747 41	829,877 93 12,774 20 12,774 20 4,692 81 8,948 17 1,285 17	877, 878 11 65, 559 88 47, 466 21 42, 766 21 13, 468 56 20, 387 52 1, 747 41	8 078 22 4 2,878 88 1,000 82 341 65 6 27	385,456 38 18,478 71 18,178 71 18,178 72 19,383 76 1,747 41		7,039 11,418 03 11,418 03 11,8 27 113 27 208 20 208 20 165 68
Total freight department earnings.		\$962,740 45	<u> </u>	\$61,335 74 \$1,024,076 19	\$17,308 71	\$1,041,384 90	\$1 30	\$1,810 25

ANALYSIS OF EARNINGS.—ENTIRE LINES.
PASSENGER BARNINGS.

	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.
Main line and branches	53,119,631 49	\$947,204 97	14,066,836 46	\$607,544.55	\$1,355,618 88	\$6,029,999 34		\$7,056 40
Leased or proprietary roads: Makhoning Coal Railroad. Jamestown & Frankin R. R. Central Trunk & R. Detroit, Monroe & Toledo R. R. Kalamaxoo, Allegan & Grand Rapids R. Kalamaxoo & White Pigeon B. R. Kalamaxoo & White Pigeon B. R. Fort Wayne & Jackson R. R. Detroit, Hillsdale & Southwestern R. R. Detroit & Chicago R. R. Sturgis, Goshen & St. Louis R. R.	22, 46, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45	14,286 82,24 82,24 83,85 1,385 1,385 8,85 8,85 16,89 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 12,03 13,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 14,03 1	88,686 46,888 96 1,988 96 1,988 96 82,288 76 82,528 76 17,100 13 11,190 13 82,501 12 844 82	88.28.1. 88.28.1. 88.28.1. 88.28.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1. 88.1.	24.4.7. 26.2.2.7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	46,887 46 56,889 79 155,976 19 64,776 89 40,571 89 40,446 88 117,486 92 117,486 92 111,466 91		25.25.25.25.25.25.25.25.25.25.25.25.25.2
Total passenger department earnings	\$3,555,200 79	\$964,844 48	14,520,045 27	8647,191 81	\$1,415,558 00	\$8,582,790 08	17 18	\$4,572 46
		FREIGHT BARNINGS	BARNINGS.					
		Local Traffic.	Throngh traffic.	Total traffic.	Other sources, freight department.	Total.	Per train mile.	Per mile of road.
Main line and branches		\$8,194,898 14	£3,887,879 01	\$11,582,777 15	\$224,179 82	\$11,806,956 97		\$13,816 74
Leased or proprietary roads: Mahoning Coal R. R. Central Trunk R. R. Central Trunk R. R. Kalamazoo, Allogan & Grand Rapids R. R. Kalamazoo, KWitte Pigeon R. R. Kalamazoo & Witte Pigeon R. R. Fort Wayna & Jackson R. R. Fort Wayna & Jackson R. R. Detroit, K. Chicago R. R. Sturgis, Goelen & St. Louis R. R.		455,542 34 127,722 34 1415,290 16 57,722 34 141,590 16 57,722 46 89,727 46 12,736 46 5,804 27	151, 154 43 2, 523 12 13, 907 46 8, 900 06 6, 910 00 2, 238 73 3, 730 48 971 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 04 871 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14,438 64 14,438 64 14,438 64 14,438 64 14,438 64 14,438 64 14,438 64 14,438 64 14,438 64 14,438 64 14,438		12,066 81 2,573 40 1,086 87 7,085 87 7,171 88 1,171 88 713 27 296 37 296 37 360 69
Total freight department earnings		\$9,466,524 62	\$3,576,525 25	\$13,043,019 87	\$245,992 05	\$13 289,041 92	<b>8</b> 18	\$9,230 68

Total transportation earnings, entire line	\$19,871,8 <b>82</b> 00
Miscellaneous receipts from operating account other than for transportation, as follows:	
From rents of tracks, yards and terminals	
Total	322,125 54
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Total earnings per train mile Total earnings: Income other than from earnings: Interest and dividends on assets	20,193,957 54 854,811 77
Total income from all sources	20,548,767 81
Proportion of iccome for Michigan	2,048,382 24
•	<del></del>
analysis of expenses.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway Renewals of rails Renewals of tries Renewals of tries Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses	\$1,098,709 15 215,638 39 303,109 09 187,992 22 99,940 17 243,245 36 23,790 21 29,642 77 6,922 56 152 77
Total	\$2,209,142 69
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars. Repairs and renewals of marine equipment. Repairs and renewals of shop machinery and tools Stationery and printing. Other expenses	46,048 68
· CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses. Station service.	971,647 69 57,869 29 88,427 95 12,790 85
Station service. Station service. Station service. Station service. Station service.  Car mileage—balance Loss and damage Injuries to persons Clearing wrecks Advertising. Outside agencies Commissions. Stock yards and elevatore. Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses	122,402 75 509,702 65 87,541 12 149,961 56 11,824 92 25,148 13 815,484 71

#### GENERAL EXPENSES.

In Michigan, from State line Ohio and Mich. to State line Mich. and Ind	Salaries of general officers. Salaries of clerks and attends General office expenses and su Insurance Law expenses. Stationery and printing (gener Other expenses. Taxes.  Total	al offices)			1	77,183 12 14,085 10 0,029 88 2,756 25 15,287 97 9,101 40 4,818 07 11,918 87
Total operating expenses and taxes per mile of road   39,534 52		RECAPITULATI	on of expenses		nses.	
Operating expenses and taxes per mile of road   S9,534 52   Operating expenses and taxes per train mile run for trains earning revenue,   1 14	Maintenance of equipment				.16 \$2,20 .20 2,76 .56 7,66 .08 1,08	9,142 69 7,409 69 4,427 13 5,175 16
### PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGAN.    Main line	Total operating expenses a	and taxes		<u></u>	100.00 \$13,7	26,154 67
Main line	12,046,719 miles	•			1 14	
Leased and proprietary roads;   Detroit, Monroe & Toledo   348,635						845 88
DESCRIPTION OF ROAD.  MAIN LINE.  Miles. M  In Michigan, from State line Ohio and Mich. to State line Mich, and Ind. 116.07  In New York, from Buffalo to State line New York and Pa. 69.50  In Pennsylvania, from State line N. Y. and Pa. to State line Pa. and Ohio 44.06  In Ohio, from State line Pa. and Ohio to State line Ohio and Mich. 194.44  In Indians, from State line Mich. and Ind. to State line Ind. and Ill. 101.95  In Illinois, from State line Ind. and Ill. 102  Total length completed.	Leased and proprietary roads Detroit, Monroe & Toledo Detroit & Chicago Detroit, Hillsdale & Southw Fort Wayne & Jackson Northern Central Michigan Kalamazoo & White Pigeon. Kalamazoo, Allegan & Grand Sturgis, Goshen & St. Louis.	estern			848, 62, 56, 107, 121, 91, 143,	685 72 851 20 804 93 285 94 210 90 110 91 563 74 529 15
In Michigan, from State line Ohio and Mich. to State line Mich, and Ind. 116.07 In New York, from Buffalo to State line New York and Pa. 69.50 In Pennsylvania, from State line N. and Pa. to State line Pa. and Ohio. 44.06 In Ohio, from State line Pa. and Ohio to State line Ohio and Mich. 194.44 In Indiana, from State line Mich. and Ind. to State line Ind. and Ill. 101.95 In Illinois, from State line Ind. and Ill. to Chicago. 14.02  Total length completed	Percentage of expenses to earn Net earnings per mile of road, Net earnings per train mile, en	ings, entire line entire linetire line		67. 4,492	97 59 58.7	
In Michigan, from State line Ohio and Mich. to State line Mich, and Ind. 116.07  In New York, from Buffalo to State line New York and Pa. 69.50  In Pennsylvania, from State line N. Y. and Pa. to State line Pa. and Ohio 44.06  In Ohio, from State line Pa. and Ohio to State line Ohio and Mich. 194.44  In Indians, from State line Mich. and Ind. to State line Ind. and Ill. 101.95  In Illinois, from State line Ind. and Ill. to Chicago. 14.02	•	DESCRIPTI	ON OF ROAD.			
On branches   L. S		Phio and Mich. to State line New York ne N. Y. and Pa. to and Ohio to State line ch. and Ind. to State l. and Ill. to Chicago	ate line Mich. and II and Pa State line Pa. and O Ohio and Mich line Ind. and III	hio	116.07 69.50 44.06 194.44 101.95 14.02	Miles.
On branches   M. S	Total length combisted		( L. 8.	78.24		J20.09
Length of double track	Length of double track	On branches	(L.S	215.92 98.50	176.15	
Length of third track on main line						490.57 9.68

#### BRANCHES.

Sandusky, from Elyria Junction to Millbury Junction via. Sandusky Sandusky Pier. from Sandusky Junction to old depot. Sandusky Air Line, from Air Line Junction to Elkhart via. Air Line.  Jackson, from Lenawee Junction to Jackson.  Monroe, from Lenawee Junction to Monroe Dunkirk, from Junction with D. A. V. & P. R. R. at Dunkirk Ashtabula Harbor, from Ashtabula Harbor to main line crossing Ashtabula, from Ashtabula to State line Ohio and Pennsylvania.  Central Trunk, from State line Ohio and Pa. to Jamestown.  Detroit, from Air Line Junction to Detroit Kalamazoo, from White Pigeon to Kalamazoo.  Lansing, from Jonesville to North Lansing Sturgis, G. & St. L., from Goshen to Findley.  Detroit & Chicago.  (Grosvenor to Fayette.  25.56	42.16 29.45 1.62 2.33 30.72 5.26 62.37 36.54 61.38	
Total length of branches owned by company		577.47
Total length of branches owned by company in Michigan	291.47	
Total length of road belonging to this company (owned)		1,117.51
Total length of road belonging to this company in Michigan (owned)	407.54	
Aggregate length of tracks in Michigan belonging to this company, computerack		510.71
Gauge of track, 4 feet 81/2 inches.		
Gauge of track, 4 feet 8½ inches.  Proprietary or leased roads operated by this company		
Proprietary or leased roads operated by this company		n Michigan.
Proprietary or leased roads operated by this company Name, description and length of each: Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers Fort Wayne & Jackson R. B., from Fort Wayne to Jackson.  Jamestown & Franklin R. R., from Jamestown to Oil City.	Total miles. I: 58.45 64.76	n Michigan. 58.45 64.76 44.52
Proprietary or leased roads operated by this company  Name, description and length of each:  Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson  Jamestown & Franklin R. R., from Jamestown to Oil City  Mahoning Coal R. R.:  From Andover to Youngstown	Total miles. I: 58.45 64.76	58.45 64.76
Proprietary or leased roads operated by this company  Name, description and length of each:  Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown  From Doughton to State line Ohio & Pa.  From State line Ohio & Pa. to connection with N. Y. P. & O. R.  R. at Sharon.	Total miles. I 58.45 64.76 97.83 50.91	58.45 64.76
Name, description and length of each: Kalamazoo, Allegan & G. R. R. B., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. B., from Ypsilanti to Bankers Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.: From Andover to Youngstown From Doughton to State line Ohio & Pa	Total miles. I 58.45 64.76 97.83 50.91	58.45 64.76
Proprietary or leased roads operated by this company  Name, description and length of each:  Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown  From Doughton to State line Ohio & Pa.  From State line Ohio & Pa. to connection with N. Y. P. & O. R.  R. at Sharon.	Total miles. I 58.45 64.76 97.83 50.91	58.45 64.76
Name, description and length of each: Kalamazoo, Allegan & G. R. R. B., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. B., from Ypsilanti to Bankers Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.: From Andover to Youngstown From Doughton to State line Ohio & Pa	Total miles. I 58.45 64.76 97.83 50.91 50.20 322.15	58.45 64.76 44.52
Name, description and length of each: Kalamazoo, Allegan & G. R. R. B., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.: From Andover to Youngstown From Doughton to State line Ohio & Pa. 6.05 From State line Ohio & Pa. to connection with N. Y. P. & O. R. R. at Sharon. 1.95 From State line Ohio & Pa. to Stewart Mills. 0.31 From Branch to No. 9 Coal Bank 2.85 From Branch to Keel Ridge Coal Bank 0.78  Total Total miles operated by company	Total miles. I 58, 45 64, 76 97, 83 50, 91  50, 20 322, 15 1, 439, 66  Number.	167.78 575.27 Aggregate length, feet.
Name, description and length of each: Kalamazoo, Allegan & G. R. R. B., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. B., from Ypsilanti to Bankers Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.: From Andover to Youngstown From Doughton to State line Ohio & Pa. 6.05 From State line Ohio & Pa. to connection with N. Y. P. & O. R. R. at Sharon. 1.95 From State line Ohio & Pa. to Stewart Mills. 0.31 From Branch to No.9 Coal Bank 2.85 From Branch to Keel Ridge Coal Bank 0.73  Total  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden bridges. Stone bridges	50.20  50.20  Number.	58.45 64.76 44.52
Name, description and length of each: Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.: From Andover to Youngstown	Total miles. I 58, 45 64, 76 97, 83 50, 91  50, 20 322, 15 1, 439, 66  Number. 16 2 66	58.45 64.76 44.52 167.73 575.27 Aggregate length, feet. 1,963.3 120 4,004.6
Name, description and length of each: Kalamazoo, Allegan & G. R. R. B., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. B., from Ypsilanti to Bankers Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.: From Andover to Youngstown From Doughton to State line Ohio & Pa. 6.05 From State line Ohio & Pa. to connection with N. Y. P. & O. R. R. at Sharon. 1.95 From State line Ohio & Pa. to Stewart Mills. 0.31 From Branch to No.9 Coal Bank 2.85 From Branch to Keel Ridge Coal Bank 0.73  Total  Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden bridges. Stone bridges	Total miles. I 58, 45 64.76 97.83 50.91  50.20 322.15 1,439.66  Number. 16 2 66 68	167.73 575.27 Aggregate length, feet. 1,963.3

Draw bridges in Michigan.

How many on your line?
Two.

Where located, when built and length of draw span:
One at Grand Rapids over Grand River, built in 1893, draw 142 feet 8 inches.
One at West Detroit over Rouge River, built in 1887, draw 165 feet.

^{*}Exclusive of 7.84 miles of double track owned by this company and leased to N. Y. C. & St. L. Ry. Co.

Character of structure: Both Pratt Truss.

Material of which constructed:
Both iron.

Height above water, and depth of water under bridge: Grand River, 22 feet, depth 7 feet; Rouge River, 13 feet; depth 16 feet.

How swung, by engine or hand power?
Both hand.

Approaches straight or curved?
Grand River curved; Rouge River straight.

## Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality?

Name of road.	Location.	Branch or line crossed.
G. B. & I.	Grand Rapids	Kalamazoo.
G. R. & I.	Piainwell	Kalamazoo.
G. R. & I.	Kalamazoo	Kalamazoo.
G. B. & I.	Kalamazoo "Y" to M. C.	Kalamazoo.
G. B. & I.	Sturgis	Goshen & Michigan.
G. B. & I.	Sturgis	Old road.
Michigan Central	Kalamazoo	
Michigan Central	Three Rivers	Kalamazoo.
Michigan Central	Homer	
Michigan Central	Albion	Lansing.
Michigan Central	Eaton Rapids	Lansing.
Michigan Central	Jackson	Fort Wayne.
Michigan Central	Jackson	Jackson.
Michigan Central	Detroit	Detroit.
Michigan Control	West Detroit	Detroit.
Michigan Central Michigan Central	Monroe	Monroe (dock track).
Wabash	Raisin Centre	Jackson.
Wabash	Adrian.	Old road.
Ann Arbor	Pittsfield Junction.	Ypsilanti.
	Finsheid Junewon.	Monroe.
Ann Arbor	Federman	Favette.
Ann Arbor	Dundee	Kalamazoo.
C. & W. M.	Grand Rapids	Kalamazoo.
C. & W. M	Grandville	Kalamazoo.
C. & G. T	Schoolcraft	Kalamazoo.
C. & G. T	South Lansing	Laneing.
F. & P. M.	Monroe	Monroe.
F. & P. M.	Carleton	Fayette.
C. J. & M.	Allegan	Kalamazoo.
C. J. & M	Homer	
C. J. & M.	Hanover	Fort Wayne.
<u>C. J. &amp; M</u>	Tecumseh	Jackson.
Union Terminal Ass'n		<b>.</b>
	_Ecorce)	Detroit.
C. K. & S	Kalamazoo	Kalamazoo.
Lansing Transit	Lansing	Lansing.
C. & K. T	Kalamazoo (Standard Wheel Com-	1
	pany's track)	Kalamazoo.
L. S. & M. SG. & M. Branch	Sturgis	Old road.
L. S. & M. S.—Fort Wayne Branch	Fort Wayne Junction	Old road.
L. S. & M. S. Monroe Branch		Detroit.
L. S. & M. S. Monroe Branch	Lenawee Junction	Jackson (connected
		old road.)
L. S. & M. S.—Jackson Branch	Jackson	Fort Wayne Branch.

What railroads cross your road either over or under your grade in this State, and where? Over: C. J. & M. R. R. at Woodstock. Under: C. J. & M. R. R. at Hudson and Jerome.

# At what crossings are interlocking and derailing switches in operation?

V	Tarablas	Vind of enparetre	Name of make
Name of railroad.	Location.	Kind of apparatus.	Name of make
. & W. M. K. & S. & G. T. & G. T. and M. C.	Grandville	Saxby-Farmer lever . Gravit Wheel Mach. Saxby-Farmer lever U. S. & S. Co. Wheel	U. S. & S. Co. Gravit Signal. U. S. & S. Co. U. S. & S. Co.
. C. . C. & G. R. & I. . C. & C. J. & M	Albion	Machinery. Saxby-Farmer lever Saxby-Farmer lever Saxby-Farmer lever	U. S. & S. Co. U. S. & S. Co. U. S. & S. Co.
. C. . C. 'abash 'abash	Homer. Woodward Ave., W. Detroit. Woodmere, W. Detroit. Raisin Centre. Adrian		U. S. & S. Co. U. S. & S. Co. U. S. & S. Co. U. S. & S. Co. U. S. & S. Co. U. S. & S. Co.
/abash . S. & M. S. Ft. Wayne Br. nion Terminal Assn	Adrian Ft. Wayne Junction Delray	Saxby-Farmer lever Saxby-Farmer lever	U. S. & S. Co. U. S. & S. Co.
hat pattern or patterns he Lever machines. umber of crossings of high umber of crossings of h	hways at grade in this State ighways at grade in this Sta	te at which there are	gates or
ingmen umber of crossings at whi	ch there are electric or autom	atic signals	
hat pattern or patterns in O'Neil electric.	use?		
umber of crossings of hig	hways over or under railroad: 18 feet above track, less than 18 feet above track	over, 5; under 7	*******
umber of highway bridges ave safety guards been er Yes.	i, less than 18 feet above track ected at overhead obstructions	a7	•••••••
re your frogs and guard ra Yes.	ils blocked as required by act	174, session laws of 188	3.
Iow are they treated? By wood and cast blockin	g.		
-	Stations		
umber of stations on who	le line: L. S. 132, M. S. 208		
ame in Michigan			
	Employés.		
umber of persons regula	rly employed on all roads of	nerated by company.	including
officials			1
-			
lassify your employés as p Baggagemen	er following list:		Nun
Brakemen			
Engineers.			
Laborers		· · · · · · · · · · · · · · · · · · ·	
Shopmen			
Others		·	
	REPAIRS AND RENI		
	Fencing in Mich		
low many miles of fencing	have you	-	

# Road bed and track.

Number of track sections in Michigan.  Average lengths of sections, miles 5.69  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan.	104 602,277 125,556
Average number of new ties per mile of road, entire line  New rails put in track, entire line:  Steel (tons 13,623) miles	418
Bridges and culverts in Michigan.	
Amount of trestle work replaced with earth during the year (linear feet)	2,098
Timber culverts replaced during the year:	Number.
With iron pipeWith timber	46 35
Total	81
New bridges built during the year.—In Michigan.	

Nearest station.	Kind.	Material.	Month built.	Feet in length.
Dorr	Beam girder	Steel	November	
Dimondale			December	
Hortou	Deam		"	
Mosherville	- 16 - 46	"	. **	28 ft. 4 in
lutton	Platt truss and 3-span			
	nlate girder		October	255 ft. 8 i
lexis	Plate girder	;	November	
		11	December .	72 ft. 6 i
Conroe		4		
donroe		44	"	48 ft.
Rockwood				28 ft. 4
Wyandotte			November	28 ft. 4 i
Vyandotte		· · · · · · · · · · · · · · · · · · ·	l .**	19 ft. 4 i
admus	Plate girder	11	January	84 ft. 6 i
admus	"	44		70 24
liga		44	August	18 ft. 4 i
HR0			August	m 10. 21

# ROLLING STOCK.

		Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	523 25	\$2,441,155 00 77,500 00
Total	548	\$2,518,655 00
Number of passenger cars—12-wheel, including official cars. Number of passenger cars—8-wheel, including official cars. Number of express and baggage cars. Number of box freight cars. Number of stock cars. Number of platform cars. Number of ore cars. Number of conductors' way cars. Other cars.	59 268 98 11,313 759 2,247 4,994 284 442	\$1,043,122 00 
Total.	20,464	\$7,656,488 00
Number of locomotives equipped with power brakes		548 425 12,480

What patterns of power brakes have you in use, and number of locomotives a Locomotives:  Westinghouse air brakes. American steam brakes. Beal's brakes. Lander's brakes.	861 19 1147 
Cars: Westinghouse air brakes.	
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Yes.	act No. 147, session laws
What pattern or patterns have you adopted for use? Gould.	
How are your passenger cars heated? L. S. & M. S. system of steam heat, and Baker heaters.	

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. I	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year	4,655,889 7,891,880	981,731 800,293
Total mileage of trains earning revenue	12,046,719	1,782,024
Passenger traffic.—Entire lines.		
Number of through passengers carried, earning revenue	Miles.	Rate.
Total number of passengers carried, earning revenue 4,519,887		
Number of passengers carried one mile 211,120,596 Average distance carried. Average amount received from each passenger	46.7	<b>\$</b> 1 00
Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers  Estimated cost of carrying each passenger one mile		02.071 02.161 02.141 01.399
Passenger traffic.—In State of Michigan.	•	
Number of through passengers carried, earning revenue 17,708 Number of local passengers carried, earning revenue 918,414		
Total number of passengers carried, earning revenue 996,122		
Number of passengers carried one mile	26.7	
Average amount received from each passenger.  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers		\$0 64 02.166 03.820 02.807
Freight traffic.—Entire lines.		٠
Number of tons of through freight carried, earning revenue	Miles.	Rate.
Total tons of freight carried earning revenue 13,662,419		
Total mileage of through freight.  Total mileage of local freight.  Total freight mileage or tons carried one mile.  Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for all freight.  Average amount received for each ton haul.  Average receipts ton per mile for through freight.  Average receipts ton per mile for all freight.  Estimated cost of carrying one ton one mile.	2,377,034,118 384.8 142.6 178.9	80 95.5 00.479 00.581 00.549 00.387

## Freight traffic.—In State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	115,109 2,268,522		
Total tons of freight carried, earning revenue	2,383,631		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, all freight Average receipts ton per mile, for all freight		#6.5 58.8	\$0 43 00.528 00.750 00.781
average receipts con per mine, for an ireigne	•		

# FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

## Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:			•		
Grain	249,175 121,814	770,348 168,188	1,019,518 289,952	7.46	
Flour Other mill products	64,948	152,276	217,224	2.12 1.59	
Нау	80,265	98.572	178.887	1.27	
Tobacco	409	9,090	9,499	0.07	
Cotton	741	46,492	47,233	0.85	
Fruit and vegetables, includes potatoes Other agricultural products.	63,854 43,248	138,816 42,017	202,670 85,265	1.48 0. <b>62</b>	
Products of animals:	*** 400	000 555	000 000		
Live stock Dressed meats and dressed hogs	166,498 78,714	208,777 58,992	375,275 137,706	2.75 1.01	
Other packing house products	10,114		·		
Other packing house products Other provisions and cured pork included. Poultry, game and fish	121,544	146,942	268,486	1.96	
Poultry, game and fish	18,387	27,825	46,162	0.34	
Wool Hides and leather	2,816 17,924	12,891 29,257	15,207 47,181	0.11 0. <b>3</b> 5	
Products of mines:	440.040				
Anthracite coalBituminous coal	417,818	258,551 2,992,640	675,869 8,187,641	4.90 22.90	
Cobe	145,001 8,783	358,777	357,560	2.62	
Ores, pyrites and lead	2,814	1.283.482	1.285.796	9.04	
Ores, pyrites and lead. Stone, sand, and other like articles	893,867	284,865	1,285,796 1,177,782	8.62	
Salt	52,017	39,399	91,416	0.67	
Products of forest:	407.440	400 400	T 40 000		
Lumber, timber, shingles and lath Other forest products	107,149 71,629	488,129 87,405	540,278 159,084	8. <b>96</b> 1.16	
danufactures:	000 000				
Petroleum and other oils	272,076 12,159	98,021 98,309	870,097	2.71	
SugarIron, pig and bloom	59,241	121,838	110,468 181,074	0.80 1.82	
Iron and steel rails	521	60,221	60,742	0.45	
Iron and steel rails Other castings and machinery	198,086	291,649	484,785	3.55	
Bar and sheet metal	88,192	78,787	166,929	1.22	
ter	125, 257	212,186	887.443	2.48	
Agricultural implements	125,257 27,258	20.124	47,877	0.35	
Wagons, carriages, tools, etc.	157,429	155,238	312,662	2.29	
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture	49,565 23,805	41,756 24,063	91,821 45,370	0. <b>67</b> 0.88	
Merchandise and other articles	170,395	332,153	502,548	3.68	
discellaneous: Other commodities not mentioned above	812,285	<b>82</b> 8,827	641,112	4.60	
Total tonnage	4,213,629	9,448,790	13,662,419	100	

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

g	Freight ceived from connecting		Total freight tonnage.		
Commodity.	on this road. Whole tons.	roads and	Whole tons.	Per cent.	
roducts of agriculture:					
Grain	56,235 72,006	103,635	159,870	6.7	
Flour	72,006	81,146 26,776	153,152	6.4	
Other mill products	23,396	26,776 13,855	50,172	2.10	
Tobacco.	36,114 42	1,847	49,969 1,389	2.10 .00	
Cotton		3,912	3.912	.10	
Cotton Fruit and vegetables, includes potatoes	18,747	35,663	54,410	2.2	
Other agricultural products	6,419	13,451	19,870	.8	
roducts of animals:					
Live stock	25,466	4,713	30,179	1.2	
Dressed meats and dressed hogs	230	30	260	.01	
Other packing house products	7,274	3,525	10,799	.4!	
Poultry, game and fish	2.881	1,196	4.077	.13	
Wool	859	363	1,222	:0	
WoolHides and leather	1,401	2,864	4,265	.18	
roducts of mines:					
Anthracite coal Bituminous coal	26	124,358	124,384	5.2	
Bituminous coal	231	647,889	648,070	27.1	
Coke	147	26,243	28,390 j	1.1	
CokeOres, pyrites and lead	7 39,553	1,639 45,999	1,646 85,552	.0′ 8.5	
Salt	538	19,886	20,424	8.	
roducts of forest:					
Lumber, timber, shingles and lath	23,210	227,050	250,260	10.50	
Other forest products	23,887	25,195	49,082	2.00	
Ianufactures: Petroleum and other oils	4,191	59 449	68,640	2.6	
Sugar	4,839	59,449 3,951	8,790	.3	
Iron, pig and bloom	2,833	15 998	18.669	.7	
Iron, pig and bloom Iron and steel rails	96	5,009	5,105	.2	
Other castings and machinery	28,674	91,092	119,766	5.0	
Bar and sheet metal. Cement, brick, tile, lime, sewer pipe and plas-	16,479	7,154	23,633	.9	
tan	17 279	54,622	72,494	3.0	
Agricultural implements	4,659	5,987	10,626	.4	
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors, and beers. Household goods and furniture	40,647	29,409	70,056	2.9	
Wines, liquors, and beers	7,276	7,520	14,798	.6	
	9,656	8,741	18,397	.7	
Merchandise and other articles	15,475	56,008	71,478	3.00	
liscellaneous:			]		
Other commodities not mentioned above	61,912	74,915	136,827	5.74	
Total tonnage	553,278	1,830,358	2,383,631	100	

## ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co., Buffalo to Cleveland, pays from 15 cents to 50 cents per 100 lbs. on express freight.

United States Express Co., Buffalo to Chicago, pays from 20 cents to 85 cents per 100 lbs. on express freight.

These companies do a general express business and deliver freight to us at our depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it b long?  Total miles wire on entire line		15,368
Miles wire in Michigan owned by railway company	367 1,911	
and railway company  Miles wire in Michigan owned jointly by Postal Telegraph Co.  Miles wire in Michigan owned jointly by Postal Telegraph Co. and railway	520	
company	9	
Total miles wire in Michigan		2,807

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Sleeping and parlor cars owned and operated by Wagner Palace Car Company which charges \$2.00 for double berths and \$4.00 for section, and from 25 cents to \$1.50 for seats in drawing room cars.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

#### Employes.

July 8, John Ott, brakeman, Sturgis. Fell off car.

#### Trespassers.—(Not employes,)

February 12, Mrs. Frank Moore, Grosvenor. Struck by train.
January 12, Edwin Hand, Allen. Struck by train; intoxicated.
May 9, Frederic Cruse, Three Rivers. Struck by train
August 8, Louis Friend and Elmo Roberts, Blissfield. Struck by train; asleep on track.

#### At Highway Crossings.—(Not employes)

January 18, W. H. Bailey, Pittsford. Driving over crossing, struck by train. September 10, Welcome Merchant, Sturgis. Struck by train. November 12, Nelson Matthewson, West Detroit. Struck by train.

#### INJURED.

#### Employes.

December 28, 1895, H. W. Alford, brakeman, D. & M. Junction. Coupling.

March 6, W. T. Serviss, brakeman, Albion. Coupling.

March 14, Frank Cooney, brakeman, Detroits. Struck by car.

February 12, F. J. Engel, employé, Adrian. Jumped off moving train.

February 12, J. D. Martin, laborer, Batavia. Struck by stone handled by derrick; accident.

November 24, W. D. Campbell, engineer, Chase's Bridge. Fell off bridge.

November 28, A. C. Knepper, brakeman, Sturgis. Coupling.

December 10, R. Green, brakeman, Plainwell. Fell off car.

December 19, B. T. Druland, brakeman, Detroit.

## $Trespassers-(Not\ employes.)$

March 26. Chas. Gifford, Bronson Intoxicated.
May 12, David Taylor, Sturgis. Jumped off moving train.
July 13, Albert Pankow, West Detroit. Climbing between cars.
November 21, Myron Butts, Pittsford. Tried to board train.

#### At Highway Crossings.—(Not employes.)

May 21, Mrs. W. H. Vendeburg, Pittsford. Driving; horse ran away, struck by train. September 21, Oliver H. Law, Detroit. Riding bicyc.e; ran into train.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.			
	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.	
Coupling cars.  Falling from trains.  Getting on and off trains.		i			4		
Highway crossings Miscellaneous Trespassers on trains			8		8		
Trespassers on tracks			5				
Total		1	8		9		

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	9 15

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Engineers Laborers Not classified above	1	6 1 1 1	7 1 1 1
Total	1	9	10

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

P. P. Wright, assistant general manager, and R. H. Hill, auditor, of the Lake Shore & Michigan Southern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. R.]

Signed,

P. P. WRIGHT, Assistant General Manager. R. H. HILL, Auditor.

Subscribed and sworn to before me this 24th day of March, A. D. 1897. [L. 8.]

O. G. GETZEN-DANNER, Notary Public.

#### OF THE

# DETROIT & CHICAGO RAILROAD COMPANY.

For the year ending December 81, 1998.

[Filed January 20, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

#### DIRECTORS.

C. Vanderbilt, New York City.
W. K. Vanderbilt, New York City.
D. W. Caldwell, Cleveland, Ohio.
Ashlby Pond, Detroit, Mich.
Chas. F. Cox, New York City.
E. D. Worcester, New York City.
Sam'l F. Barger, New York City.
D. W. Parder, New York City.
O. G. Getzen-Danner, Cleveland, Ohio.
Terms expire when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 19, 1888. Number of stockholders at date of last election: 10. Number of stockholders in Michigan at same date: 1. Amount of full paid stock held in Michigan at same date: \$100.00. Date of annual meeting of stockholders: Second week in November. Flacal year of company ends December 31. General offices of the company are located at Cleveland, Ohio.

#### REMARKS.

Entire capital stock owned by L. S. and M. S. B'y Co.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association .			\$1,000,000 00
Par value of shares. Average price received per share. Number of shares issued. Amount paid in on common	10,000	\$100 00 100 00 \$1,000,000 0	
Total amount paid in, as per books of the company	<b></b>		\$1,000,000 00
Paid in per mile of road owned by company			16,049 00

#### COST OF ROAD AND EQUIPMENT.

TOTAL COST FOR CONSTRUCTION	AND	RATTOMENT	OF BOAD	AND	BOANCHES	BIIII.T BY O	T.D. COMPANY.

Total expended for construction and equipment.  Average cost of construction per mile of road (not including sidings), 62.31 miles.  Proportion of cost of construction for Michigan	\$5,176,557 58 76,576 29 4,789,416 54
	<del></del>

#### DESCRIPTION OF ROAD.

-	ATM	TIVE

RAIN DING.	Miles.	Miles.
Length completed in Michigan	57.65 4.66	
Total length completed		62.81
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of sidings, spurs, and other tracks not above enumerated Same in Michigan	57.63 5.60 5.19	62.31
Aggregate length of tracks belonging to this company, computed as single	track	67.91
Same in Michigan	62.84	

Gauge of track, 4 feet 8% inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, }88.

D. W. Caldwell, president, and O. G. Getzen-Danner, secretary, of the Detroit & Chicago Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

D. W. CALDWELL, President.

O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

[L. B.]

W. T. SMITH,
Notary Public.

#### OF THE

# DETROIT, HILLSDALE & SOUTHWESTERN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed February 3, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ELIJAH SMITH, Boston, Mass.
Secretary, P. W. SMITH, Boston, Mass.
Treasurer, P. W. SMITH, Boston, Mass.
Transfer Agent, Farmers' Loan & Trust Co., New York, N. Y.

#### DIRECTORS.

ELIJAH SMITH. Boston, Mass.
PROSPEE W. SMITH, Boston, Mass.
CALEB W. LORING, Boston, Mass.
EDWARD L. GIDDINGS, Boston, Mass.
FRANK O. SQUIRE, Boston, Mass.
EDWARD C. PERKINS, Boston, Mass.
GEO. H. RAGEE, Boston, Mass.
LEVERETT S. TUCKBEMAN, Boston, Mass.
GEO. B. WARREN, Troy, N. Y.
Terms expire January 12, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 30, 1875.

Number of stockholders at date of last election: 836

Number of stockholders in Michigan at same date: 3.

Amount of full paid stock held in Michigan at same date: \$1,700.00

Date of annual meeting of stockholders: Second Tuesday in January.

Fiscal year of company ends January 1.

General offices of the company are located at Ypsilanti, Mich.

#### REMARKS.

The property of the Detroit, Hillsdale & Southwestern Railroad Company is leased in perpetuity to the Lake Shore & Michigan Southern Railway Company; lease is dated Sept. 5, 1881; the terms are \$40.500 per annum until July 1, 1883, and \$14.000 per annum thereafter, payable semi-annually on January 1st and July 1st; the leasee also pays \$500 per annum for organization expenses.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$1,850,000 00
Par value of shares \$100.00 Average price received per share 100.00	
Number of shares issued	
Total amount paid in as per books of the company	
Paid in per mile of road owned by company	20,705 52

# MICHIGAN RAILROAD RETURNS, 1896.

#### ANALYSIS OF DEBT ACCOUNTS.

Total amount of stock and debt	\$1,850,090 00 20,705 52

#### COST OF BOAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

Total expended for construction Average cost of construction per mile of road (not including sidings), 65.20 miles Total expended for equipment.	\$1,292,204 51 19,819 09 53,511 74
Average cost of equipment per mile, 65 20 miles Proportion of cost of equipment for Michigan	53,511 74 820 78 820 78

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: November, 1872.

MAIN LIND.	Miles.	Miles.
Length completed in Michigan	65.20	ALILES.
Total length of road belonging to this company		65.20
Total length of road belonging to this company in Michigan	65.20	4.29
Aggregate length of tracks belonging to this company computed as single track.		69.49
Same in Michigan		69.49
Gauge of track, 4 feet 81/2 inches.		

STATE OF MASSACHUSETTS, } ss.

Prosper W. Smith, secretary, of the Detroit, Hillsdale & Southwestern Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief. PROSPER W. SMITH, Secretary. Signed,

Subscribed and sworn to before me this 18th day of January, A. D. 1897. [L. S.]

PERCY G. BOLSTER, Notary Public.

#### OF THE

# DETROIT, MONROE & TOLEDO RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed January 20, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

#### DIRECTORS.

C. VANDERBILT, New York, N. Y.
W. K. VANDERBILT, New York, N. Y.
D. W. CALDWELL, Cleveland, Ohio.
E. D. WORCESTER, New York, N. Y.
D. W. PARDER, New York, N. Y.
ASHLEY POND, Detroit, Mich.
GEO. C. GREENE, Cleveland, Ohio.
P. P. WRIGHT, Cleveland, Ohio.
ADDISON HILLS, Cleveland, Ohio.
E. D. POTTER, JR., Toledo, Ohio.
O. G. GETZEM-DANNER, Cleveland, Ohio.
Terms expire when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 6, 1885.
Number of stockholders at date of last election: 13.
Number of stockholders in Michigan at same date: 1.
Amount of full paid stock held in Michigan at same date: \$100.00.
Date of annual meeting of stockholders: Fourth Tuesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Cleveland, Ohio.

#### REMARKS.

Entire capital stock except one share owned by L. S. & M. S. R'y Co.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$100.00	\$414,100 00
Number of shares issued 4,141	
Total amount paid in as per books of the company	\$414,100 00
Paid in per mile of road owned by company	6,640 47

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

				1
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage	7%	1908		\$924,000 00
I	RECAPITUL	ATION.		
Total funded debt				\$924,000 00
Total debt liabilities				\$924,000 00
Amount of debt liabilities per mile of road. Total amount of stock and debt				1,338,100 00
INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due each year . Was it paid for the last year? Yes.				\$64,680 00
COST OF 1		D EQUIPMENT		iny.
Total cost for construction and eq Total expended for construction	quipment of ad (not inc nigan	road and brand	hes built by composed 62.36 miles	\$1,881,600 00 22,155 22
Total cost for construction and eq Total expended for construction	quipment of ad (not inc nigan	road and brand luding sidings), OF ROAD.	hes built by compo	\$1,381,600 00 22,155 22 1,193,381 88
Total cost for construction and eg Total expended for construction Average cost of construction per mile of ro Proportion of cost of construction for Mich	ad (not inc aigan RIPTION	road and branch luding sidings), OF ROAD.	hes built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by composite of the built by compo	\$1,381,600 00 22,155 2: 1,193,381 88
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STATE OF OHIO, COUNTY OF CUYAHOGA, }88.

D. W. Caldwell, president, O. G. Getzen-Danner, secretary, of the Detroit, Monroe & Toledo Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

D. W. CALDWELL, President.
O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897. [L. S.]

W. T. SMITH,
Notary Public.

OF THE

# FORT WAYNE & JACKSON RAILROAD COMPANY,

For the year ending December 31, 1897.

[Filed March 26, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, SAMUEL SLOAN, New York City.
Secretary, WHITTLESEY D. SEARLS, New York City.
Treasurer, WHITTLESEY D. SEARLS, New York City.
Transfer Agent, THE FARMERS' LOAN & TRUST CO., New York City.

#### DIRECTORS.

SAMUBL SLOAM, New York City.

B. G. RALSTON, New York City.

LAWRENCE TURNURE, New York City.

W. D. SEARLS, New York City.

SAMUBL SLOAM, JR., New York City.

S. S. PALMEE, New York City.

HENRY BESTE, New York City.

WM. S. SLOAM, New York City.

DWIGHT MERRIMAN, Jackson, Mich.

J. F. JOY, Jackson, Mich.

J. M. ROOT, Jackson, Mich.

Term expires January 23, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association signed: December 31, 1879.
Number of stockholders at date of last election: 830 preferred, 77 common.
Number of stockholders in Michigan at same date: 12.
Amount of full paid stock held in Michigan at same date: \$114,800, par value.
Date of annual meeting of stockholders: January 25, 1896.
Fiscal year of company ends January 23, 1897.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			\$27,275 48
Par value of shares		\$100	•
Average price received per share: Issued for bonds. Number of shares issued	27,275		

#### DESCRIPTION OF ROAD.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan Length completed in Indiana	44.54 53.29	21140.
Total length completed		97.83
Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Aggregate length of sidings, spurs, and other tracks not above enumerated	44.54	97.88 18.71
Same in Michigan Aggregate length of tracks belonging to this company, computed as single track	4.81	111.54
Same in Michigan	49.35	
Gauge of track, 4 feet 81/4 inches.		

STATE OF NEW YORK, } ss.

Samuel Sloan, president, and Whittlesey D. Searls, secretary, of the Fort Wayne & Jackson Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

Signed,

SAM. SLOAN. President.

SAM, SLOAN, President. W. D. SEARLS, Secretary.

Subscribed and sworn to before me this 1st day of February, A. D. 1897. [L. s.]

W. B. CARDOZO,

Notary Public, No. 18, New York County.

OF THE

# KALAMAZOO, ALLEGAN AND GRAND RAPIDS RAILROAD COMPANY.

For the year ending December 31, 1897.

[Filed January 29, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. H. WADE, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, HORACE B. CORNER, Cleveland, Ohio.

#### *DIRECTORS.

O. M. Barnes, Lansing, Mich.
Chas. A. Otis, New York, N. Y.
J. H. Wade, New York, N. Y.
H. B. Perrins, Warren, Ohio.
Dan. P. Rells, Cleveland, Ohio.
D. W. Caldwell, Cleveland, Ohio.
H. B. Corner, Cleveland, Ohio.
Terms expire when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, January 3, 1869.
Number of stockholders at date of last election: 99.
Number of stockholders in Michigan at same date: 9.
Amount of full paid stock held in Michigan at same date (30 shares): \$3,000.
Date of annual meeting of stockholders: First Wednesday in May.
Fiscal year of company ends, December 31.
General offices of the company are located at Cleveland, Ohio.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.  Par value of shares	\$610,000 00
Number of shares issued	
Total amount paid in, as per books of the company	610,000 00
Paid in per mile of road owned by company	10,441 68

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	July 1, 1938		\$840,000 00

^{*}Two vacancies.

#### RECAPITULATION.

Total funded debt Total debt liabilities Amount of debt liabilities per mile of road (58.42 miles) Total amount of stock and debt Stock and debt per mile of road	840,000 00 14,37× 64 1,450,000 00	
INTEREST ON THE FUNDED DEST.		
What is the amount of same due each year	\$42,000 00	

#### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

Total expended for construction	\$1,450,000 00
Total expended for construction	21,820 00
Proportion of cost of construction for Michigan	1,430,000 00

#### DESCRIPTION OF ROAD.

MAIN LINE. Miles	. Miles
Length completed in Michigan 58.42	
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan	30.42
Aggregate length of sidings, spurs, and other tracks not above enumerated	11.58
Aggregate length of tracks belonging to this company, computed as single track	70.00

Gange of track, 4 feet 81/2 inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, \}88.

J. H. Wade, president, and O. G. Getzen-Danner, secretary, of the Kalamazoo, Allegan & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

J. H. WADE, President,

O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D., 1897.

[L. S.]

W. T. SMITH,
Notary Public.

OF THE

### KALAMAZOO & WHITE PIGEON RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed January 20, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary and Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

#### DIRECTORS.*

- D. W. CALDWELL, Cleveland, Ohio.
- O. G. GETZEN-DANNER, Cleveland, Ohio.
- D. P. CLAY, Grand Rapids, Mich.
- D. B. MERRILL, Kalamazoo, Mich.
- J. W. OSBORNE, Kalamazoo, Mich.
- P. P. WRIGHT, Cleveland, Ohio.

Terms expire when their successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 14, 1869. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 4 individual stockholders and the L. S. & M. S. Ry. Amount of full paid stock held in Michigan at same date: 4 shares besides 2,302 held by L. S. & M. S. By. Co.

Date of annual meeting of stockholders: First Wednesday in May.
Fiscal year of company ends: December 31st.

General offices of the company are located at Cleveland, Ohio.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$230,900 00
Number of shares is ued	230,900 00
Total amount paid in as per books of the company	\$280,900 00
Paid in per mile of road owned by company	6,313 64

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	Jan. 1, 1949		\$400,000 00

One vacancy.

#### RECAPITULATION.

RECAPITULATION.	
Total funded debt. Amount of debt liabilities per mile of road, 36.57 miles. Total amount of stock and debt Btock and debt per mile of road.	\$400,000 00 10,987 92 630,900 00 17,251 56
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year	
Was it paid for the last year? Yes.	
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	y.
Total expended for construction	\$610,000 00 16,680 00 610,000 00
DESCRIPTION OF ROAD.	
MAIN LINE.	Miles.
Length completed in Michigan 36.57	
Total length of road belonging to this company  Total length of road belonging to this company in Michigan	36.57
Aggregate length of sidings, spurs, and other tracks not above enumerated.  Same in Michigan 5.62	5.62
Aggregate length of tracks belonging to this company, computed as single track.  Same in Michigan 42.19	42.19

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

Gauge of track, 4 feet, 81/4 inches.

D. W. Caldwell, president, and O. G. Getzen-Danner, secretary, of the Kalamasco & White Pigeon Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

D. W. CALDWELL, President.
O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

[L. 8.]

W. T. SMITH,
Notary Public.

#### OF THE

### NORTHERN CENTRAL MICHIGAN RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed January 20, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio.

Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio.

Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

### DIRECTORS.

- W. K. VANDERBILT, New York City.
- D. W. CALDWELL, Cleveland, Ohio.
- O. G. GETZEN-DANNER, Cleveland, Ohio.
- C. F. MITCHELL, Hillsdale, Mich.
- W. H. CANNIFF, Cleveland, Ohio.
- P. P. WRIGHT, Cleveland, Ohio.
- E. A. BILLINGS, Toledo, Ohio.
- H. A. WORCESTER, Hillsdale, Mich.
- R. A. MONTGOMERY, Lansing, Mich.

Terms expire when their successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 12, 1866.

Number of stockholders at date of last election: 10.

Number of stockholders in Michigan at same date: 3 individual stockholders and L. S. & M. S. R'y Co. Amount of full paid stock held in Michigan at same date: 3 shares in addition to stock held by L. S. & M. S. R'y Co.

Date of annual meeting of stockholders: Third Wednesday in June.

Fiscal year of company ends: December 31.

General offices of the company are located at Cleveland, Ohio.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$600,000 00
Total amount paid in, as per books of the company	
Paid in per mile of road owned by company, 61.14 miles.	9,977 12

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

First mortgage, 8%, due in 1903. All owned by L. S. & M. S. R'y Co.

#### RECAPITULATION.

Total funded debt, authorized, but not issued	\$1,525,000 00 24,942 75
Total amount of stock and debt.	
INTEREST ON THE FUNDED DEBT.	·
What is the amount of same due each year. Was it paid for the last year? No; no bonds outstanding.	\$122,000 00

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

Total expended for construction	22,195 00
Proportion of cost of construction for Michigan 1,35	57,000 00

#### DESCRIPTION OF ROAD.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan	61.14	61.14
Total length of road belonging to this company in Michigan  Aggregate length of sidings, spurs, and other tracks not above enumerated	61.14 8.39	01.14
Aggregate length of tracks belonging to this company, computed as single track Gauge of track. 4 feet 8% inches.		69.53

STATE OF OHIO, COUNTY OF CUYAHOGA, }88.

D. W. Caldwell, president, and O. G. Getzen-Danner, secretary, of the Northern Central Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

D. W. CALDWELL, President.

O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

W. T. SMITH,
Notary Public.

#### OF THE

### STURGIS, GOSHEN & ST. LOUIS RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed January 20, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

#### DIRECTORS.

C. VANDERBILT, New York City.
W. K. VANDERBILT, New York City.
D. W. CALDWELL, Cleveland, Ohio.
E. D. WORCESTEE, New York City.
W. H. CANNIFF, Cleveland, Ohio.
P. P. WRIGHT, Cleveland, Ohio.
O. G. GETZEN-DANNER, Cleveland, Ohio.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 29, 1889. Number of stockholders at date of last election: 8 Number of stockholders in Michigan at same date: None. Amount of full paid stock held in Michigan at same date: None. Date of annual meeting of stockholders: First Wednesday in June. Fiscal year of company ends December 31. General offices of the company are located at Cleveland, Ohio.

#### REMARKS.

The Sturgis, Goshen & St. Louis Railroad was acquired by the L. S. & M. S. Ry. Co., as of December 1, 1888, and is operated by that company as a proprietary road.

The entire capital stock, \$300,000, was turned over to the L. S. & M. S. Ry. Company, for which that company guaranteed the payment of the bonded debt of \$322,000; 100-year 3% bonds and interest.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			\$2,000,000 00
Par value of shares		\$100 00	
Number of shares issued	3,000		

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
First mortgage	3%	1989	New York City	\$322,000 00
Total funded debt	RECAPITUI			\$322,000 00 11,386 00 822,000 00
INTERES: What is the amount of same due each year . Was it paid for the last year? Yes.		FUNDED DEBT.		<b>\$9,680</b> 00
DESC	BIPTION	OF ROAD.		
Length completed in Michigan Length completed in Indiana Total length completed	,		25.2	2
Total length of road belonging to this comp Total length of road belonging to this comp Aggregate length of sidings, spurs and othe Same in Michigan Aggregate length of tracks belonging to this	any oany in Mi r tracks no	chigan ot above enumera		. 28.2 2 . 2.3
Gauge of track, 4 feet, 8½ inches.		, compared as sin	8.0	

# STATE OF OHIO, COUNTY OF CUYAHOGA, } 88.

D. W. Caldwell, president, and O. G. Getsen-Danner, secretary, of the Sturgis. Goshen & St. Louis Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

D. W. CALDWELL, President.
O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.
[L. S.]

W. T. SMITH, Notary Public.

#### OF THE

### LIMA NORTHERN RAILWAY COMPANY,

For the year ending December 31, 1996.

[Filed May 1, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. R. MEGUNE, Cincinnati, Ohio.

Pice President, H. L. BURNETT, New York, N. Y.

Secretary, W. C. BROWN, Lima, Ohio.

Auditor, E. B. HATHAWAY, Lima, Ohio.

General Manager, C. H. ROSER, Lima, Ohio.

Superintendent, G. R. HASKELL, Lima, Ohio.

Chief Engineer, C. H. ROSER, Lima, Ohio.

General Passenger Agent, F. E. FISHER, Springfield, Ohio.

General Freight Agent, C. A. BARNAW, Springfield, Ohio.

General Counsel, W. B. RICHIE, Lima, Ohio,

#### DIRECTORS.

J. B. MEGUNE, Cincinnati, Ohio.
H. L. BURNETT, New York City.
E. L. OPPENHEIM, New York City.
C. E. BEOADHEAD, Edgewater, N. J.
J. B. TOWNSEND, Lima, Ohio.
M. DONNELLY, Napoleon, Ohio.
A. A. PURMAN, Ft. Wayne, Ind.
GEO. H. SMITH, Chillioothe, Ohio.
EMERY LATTAMER, Bryan, Ohio.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 27, 1895. Date of annual meeting of stockholders: First Monday in July. Fiscal year of company ends June 30. General offices of the company are located at Lima, Ohio.

### REMARKS.

The Detroit & Cincinnati Railway Company's track in Seneca township, Lenawee county, Michigan, commencing at State line in section 2 (connecting with the Lima Northern Railway), and extending northward to a connection with the Wabash Railway, in Seneca township, Lenawee county, Michigan, a distance of about six and one half miles, was purchased by the Lima Northern Railway Co. July 6, 1896.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares		#100 00	<b>\$2,400,000</b> 00
Number of shares issued	24,000	***************************************	

### ANALYSIS OF DEBT ACCOUNTS.

Class, character and date of issue.	Rate of Interest.	When due.	Where	payable.	Amount outstanding.
First mortgage bonds (50 years)	5≴	1945	New Yo	rk	\$1,200,000 00
ANALYSIS OF EAR	NINGS.—	N STATE OF M	ICHIGAN	۲.	
_	assenger	BARNINGS.			
Main line and branches: Local fares Through fares				\$165 50 15 60	
Total passenger fares				\$181 10	5
Express and baggage				800 00	D
Total passenger department earnings	·		-		\$481 10
Per train mile Per mile of road				\$0 34 30 00	<b>.</b>
ra	REIGHT EA	RNINGS.			
Main line and branches:				379 30 1,460 %	
Through traffic  Total freight department earnings			-		-
Per train mile Per mile of road			· 	\$2 92 115 11	
DESC	RIPTION	OF ROAD.	-		
Date when the road was opened for use bet From State Line to Junction Wabash R'y From Junction to Adrian, Wabash track,	ween its p , July 27, July 27, 18	resent termini : 1896. 96.			
	MAIN L	INE.			
In Michigan, from State Line to Junction In Ohio, from Lima to Michigan State Line				Miles. 6.4 71.8	
Total length completed			-		78.2
Total length of road belonging to this comp Total length of road belonging to this comp Aggregate length of sidings, spurs and other	eny in Mi or tracks n	chigan ot above enumera	ted		78.2 6.4 1,050 feet.
Gauge of track, 4 feet 81/2 inches.					
Proprietary or leas	ed roads o	perated by this co	mpany.		
Trackage over Wabash from Junction to	Adrian.				
Number of bri	-	trestles in Michigo			Feet.
AL AAMAN ANDSHOOM AND THE THE THE THE THE THE THE THE THE THE					
Crossings	.—Railro	d and highway.			

What railroads cross your road at grade in this State, and at what locality? Fayette Branch L. S. & M. S. R. B. at 2½ miles west of Weston.

Number of crossings of highways at grade in this State_____

### Stations.

Number of stations on whole line	16
Fencing in Michigan.	*
How many miles of fencing have you? Posts up.	
Give the number of miles required to complete fence both sides of track in Michigan as in which needed:  About 10 miles, all in Lenawee county.	nd the counties
Road bed and track.	
Number of track sections in Michigan	1
Aware so langth of section (miles)	tiz
Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan	103,072
Number of new ties put in track in Michigan	17,160
Average number of new ties per mile of road	2,640
ROLLING STOCK.	Duccount acti
Numbe	Present esti- r. mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	11 \$15,000 00
Number of passenger cars—8 wheel, including official cars	
Number of express and baggage cars	====
Number of passenger cars equipped with power brakes	
What patterns of power brakes have you in use? Westinghouse.	
How are your passenger cars heated? One train, 3 cars, steam. One train, 6 cars, stoves.	
MILEAGE, TRAFFIC, ETC.	. I. WLi
Miles run by passenger trains during the year	e. In Michigan. 300 9,600
Miles run by freight trains during the year4,	100 <b>544</b>
Miles run by mixed trains.	4,700
Total mileage of trains earning revenue	88014,844
Passenger traffic.—Entire lines.	
Numbers. Mi	es. Rate.
Number of through passengers carried earning revenue	
Number of local passengers carried earning revenue 27,807	
Total number of passengers carried earning revenue 28,732	
Average distance carried2	7.7
Average amount received from each passenger Average receipts per mile for through passengers.	
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers	01
Average receipts per passenger per mile for an passengers	011
Passenger traffic.—In State of Michigan.	
Numbers. Mi	es. Rate.
Number of through passengers carried earning revenue 49	
Number of local passengers carried earning revenue 522 Total number of passengers carried earning revenue 8,352 Average distance carried 1	
Average distance carried 1	4 4
	4.6
Average amount received from each passenger.  Average receipts per mile for through passengers.	\$0.32
Average receipts per mile for through passengers	\$0.32 02 015
Average receipts per mile for through passengers	\$0.32 02 015

### Freight traffic.—Entire lines.

Tregue trage. Electre tiles.			
Number of tons of through freight carried earning revenue Number of tons of local freight carried earning revenue	Tons. 68,433 8,706	Miles.	Rate.
Total tons of freight carried earning revenue	72,139		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile		4,920 9,938 266,784	
Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for all freight.		13 9 5	
Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average receipts ton per mile for local freight  Average receipts ton per mile for all freight			\$0.28 .016 .048 .052
Freight traffic—In State of Michiga	an		
	Tons.	Miles.	Rate.
Number of tons of through freight carried earning revenue  Number of tons of local freight carried earning revenue	9,062 897		
Total tons of freight carried earning revenue	9,959		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile		708 679 <b>29,64</b> 3	
Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for all freight.	• • • • • • • • •	13 10 8	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile for all freight.	• - <b> •</b>		\$0.18 .012 .081 .022

### FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture : Grain Hay Fruit and vegetables.	8,000 9,000 15 8	1,000	9,000 9,000 100 8	
Products of animals: Live stock	1,000 6 6	100 66	1,100 72 6	
Products of mines: Anthracite coal Bituminous coal Ores Stone, sand and other like articles Salt		800 84,444 2,500 5 4	300 34,444 2,500 14 4	
Products of forest: Lumber Logs and shingles	2,500	8,000	8,000 2,500	
Manufactures: Petroleum and other oils. Iron, pig and bloom Cement, brick, and lime. Agricultural implements. Household goods and furniture.  Merchandise.	26 20	150 150 290 5	8,240 150 176 290 25 5,960	
Total tonnage	28,830	43,309	72,139	

### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

### Company's material excluded.

<u>.</u>	Freight	Freight received from	Total freig	ht tonnage.
Commodity.	originating on this road. Whole tons.	connecting roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture: Hay Fruit and vegetables. Potatoes	200 15	85 8	200 100 8	
Products of animals: Live stock. Poultry, game and fish.		2 81	2 31	
Products of mines: Anthracite coal. Bituminous coal. Ores		116 7,296 10	116 7,296 10	
Products of forest: LumberLogs		50 41	50 291	
Manufactures: Petroleum and other oils		150 100 5	1,600 150 100 5	
Total tonnage	2,065	7,894	9,959	

#### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

National.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 78.2 miles. Western Union.

STATE OF OHIO, COUNTY OF ALLEN, \ 88.

E. B. Hathaway, auditor, of the Lima Northern Railway Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

E. B. HATHAWAY, Auditor.

Subscribed and sworn to before me this 30th day of April, A. D. 1897.
[L. S.]

R. B. TARAN,

Notary Public, Allen Co., Ohio.

OF THE

## LOWELL & HASTINGS RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed May 1, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

General Manager, M. L. SWEET, Grand Rapids, Mich. Secretary and Treasurer, McGEORGE BUNDY, Grand Rapids, Mich. Auditor and Traffic Manager, W. H. CLARK, Lowell, Mich.

### DIRECTORS.

M. L. SWEET, Grand Rapids, Mich.
H. J. HOLLISTER, Grand Rapids, Mich.
MCGEOEGE BUNDY, Grand Rapids, Mich.
WM. WINEGAR, Grand Rapids, Mich.
GEO. H. TUXBURY, Hart, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 6, 1887.

Number of stockholders at date of last election: 7.

Number of stockholders in Miehigan at same date: 7.

Date of annual meeting of stockholders: June 3.

Fiscal year of company ends: Calendar year.

General offices of the company are located at Grand Rapids and Lowell.

GENERAL EXHIBIT.  Debit.	Credit.
Total earnings from operation \$10,664 Total expenses, including taxes \$10,664	\$11,139 51 49
Net income or deficit	<b> ₹475</b> 02
Balance for the year.	475 02
Balance (profit and loss) last year	<b>2,6</b> 61 <b>7</b> 8
Balance forward to next year.	<b>\$3,136</b> 75

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or a	rticles of association		\$200,000 00
Par value of shares	1,896		)
<del>-</del>	he company		190,120 00
Per mile of road owned by company	7, 12½ miles		15, <b>209 6</b> 0
	WAT WORK ON DRIBE AGGOTTING		
<b>A</b>	NALYSIS OF DEBT ACCOUNTS.		
	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liq	uidated?	Amount.
For construction			\$38,905 00
			\$38,905 00
	RECAPITULATION.		
	of road, 12% miles		\$88,905 00 8,112 40
Total amount of stock and debt	⅓ miles		\$229,025 00 18,822 00
GI	ENERAL BALANCE SHEET.—Dr.		
Construction account Equipment account		}	\$219,120 00
Other assets:			1,000 00
Loss brought forward	·····	\$8,905 00	
Total			\$229,025 00
G	ENERAL BALANCE SHEET.—Cr.		
Capital stock		••••••	\$190,120 00
			88,905 00 \$229,025 00
10441	<del></del>		<b>****</b>
co	ST OF ROAD AND EQUIPMENT.		
Total cost for construction	on and equipment of road and branches t	built by compan	
Total expended for construction an Average cost per mile of road (not Proportion of cost for Michigan	d equipment including sidings), 12% miles		\$228,025 00 18,322 00 228,025 00
	Purchased by present company.		
Total cost to date of report	of road and equipmentincluding sidings), 12½ miles		2225,025 00

### ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.

PASSENGER BARNINGS.		
Main line and branches: Local fares	\$2,854 00	
Total passenger fares	\$2,854 00	
Express and baggage Mails Other sources	86 68 547 84 161 00	
Total passenger department earnings		\$8,649 02
Per train milePer mile of road	<b>3</b> 0 19 291 92	
PREIGHT BARNINGS.		
Main line and branches: Local traffic	\$7,490 49	
Total traffic	\$7,490 49	
Total freight department earnings		7,490 49
Per train mile	<b>\$</b> 0 87 599 24	11,189 51
Per mile of road Total transportation earnings, entire line Transportation earnings per mile of road. Transportation earnings per train mile Total earnings from operation of road Total earnings per mile of road. Total earnings per mile of road.	891 16 56	11,139 51
Total earnings per mile of road  Total earnings per train mile	891 16 56	•
Total earnings per train mile. Proportion of taxable earnings for Michigan. Total taxable earnings per mile of road in Michigan.	891 16	11,189 51
Total income from all sources		\$11,139 51
Proportion of income for Michigan,		11,139 51
MAINTENANCE OF WAY AND STEUCTURES.		P1 700 E0
Repairs of roadway		\$1,762 58 1,165 00
Total		\$2,927 58
MAINTENANCE OF EQUIPMENT.		
Repairs and renewals of locomotives.  Repairs and renewals of passenger cars.  Repairs and renewals of freight cars.		\$350 00 50 00 66 27
Total		\$466 27
CONDUCTING TRANSPORTATION.		
Engine and roundhouse men		\$1,800 00 1,182 60
Fuel for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train supplies and expenses		140 00 21 00
Train supplies and expenses Station service Station supplies Stationery and printing Other expenses		1,070 00 100 00 2,112 00 115 40 200 00 254 25
Total		96,995 25
General Ripenses.		
Other expenses		83,63 241 76
Total		\$275 89

RECAPITULATION OF EXPENSES. Per cent of expenses.	
Maintenance of way and structures	\$2,927 58 486 27
Maintenance of equipment	6,995 25
General expenses, including taxes	275 39
Total operating expenses and taxes	\$10,664 49
Operating expenses and taxes per mile of road	\$858 16
Total proportion of expenses for Michigan.	10,664 49
Percentage of expenses to earnings 96.  Not earnings per mile of road \$38 00.  Net earnings per train mile	00
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Lowell to Freeport, December, 1887.	
MAIN LINE. Miles.	Miles.
In Michigan, from Lowell to Freeport	
Total length completed	12.50
BRANCHES.	
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	13.50
Gauge of track, 4 feet 8% inches.	
Number of bridges and trestles in Michigan.  Number.  Wooden bridges	Aggregate length feet. 670
WOOden bridges	
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State and at what locality? Detroit, Lussing & Northern R. R. at Elmdale. Detroit, Grand Haven & Milwaukee R. R. at Lowell.	
At what crossings are interlocking and derailing switches in operation?  Elmdale and Lowell.	
What pattern or patterns have you adopted? Gravitt, Allentown.	
Number of crossings of highways at grade in this State: 17.	
Are your frogs and guard rails blocked as required by act 174, Session Laws of 1883? Yes.	
How are they treated? Blocked with wood.	
Stations.	
Number of stations on whole lines. Same in Michigan	3 3
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	15 15
Classify your employée as per following list:	Number.
Brakemen.	1
Conductors <u>Engineers</u>	1 1
Firemen	1
LaborersShopmen.	1
Others	====

### REPAIRS AND RENEWALS.

### Fencing in Michigan.

How many miles of fencing have you?			22
Give the number of miles required to complete fence both sides of counties in which needed:  Kent			in, and the
			<del></del>
Total miles required			8
Road bed and track.			
Number of treels continue in Michigan			•
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road			1.121/4 5,600 5,600 448
ROLLING STOCK.			
		., P	resent esti-
Number of locomotives of more than 30 tons weight, exclusive of te	nder	Number. m	86,000,00
_ ·			
Total		2	\$6,000 00
	=		
Number of combintion cars—8-wheel, including official cars  Number of platform cars		. 1	\$1,500 00 1,500 00
Total		. 6	\$3,000 00
Number of locomotives equipped with power brakes			1 1
What patterns of power brakes have you in use, and number of loc Westinghouse.  Are your freight cars being equipped with automatic couplers as of 1885, as amended by act No. 88, session laws of 1887? Yes.  What pattern or patterns have you adopted for use?			
M. C. B. Janney.			
How are your passenger cars heated? Baker heater.			
MILEAGE, TRAFFIC, ETC.			
Train mileage.  Miles run by mixed trains			All in Michigan. 20,000
actios run by mixed trains			20,000
Passenger traffic.—Road all in State of 1	Lichigan.		
Number of local passengers carried, earning revenue	Number. 15,900	Miles.	Rate.
	<u>_</u>		
Total number of passengers carried, earning revenue	15,900		
Number of passengers carried one mile	111,300		
Average distance carried Average amount received from each passenger Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers. Estimated cost of carrying each passenger one mile		7	\$0 18 02.57 02.57 05

### Freight traffic.—Road all in State of Michigan.

Number of tons of local freight carried, earning revenue	Tons. 18,548	Miles.	Rate.
Total tons of freight carried, earning revenue	18,543		
Total mileage of local freight.	·	20,000	
Total freight mileage or tons carried one mile		94,801	
Average ton haul for local freight		7	
Average ton haul for all freight		7	
Average amount received for each ton haul.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.  Estimated cost of carrying one ton one mile.			\$0 55 07.8 07.8 10

### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigi	nt tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain			1,009	7.45
Flour	1,550		1,550	11.44
Other mill products	290 180		290 180	2,14 1,48
Hay Fruit and vegetables	660		660	4.87
Potatoes	1,200		1,200	8.86
1 044 0000	1,200		1,200	0.00
Products of animals:				
Live stock	793		793	5.85
Poultry, game and fish	80		80	.59
Wool	101		101	.74
Products of mines: Anthracite coal. Bituminous coal. Salt		540 423 72	540 428 72	3.96 3.12 .53
Products of forest:		ļ		
Lumber	910	1.960	2,870	21.17
Shingles		1 50	50	.87
Na-ma-atmass.				
Manufactures: Cement, brick and lime		100	100	.74
Agricultural implements		112	112	.83
Wines, lignors and beers		30	30	.22
Wines, liquors and beers Household goods and furniture	20	22	42	.31
Merchandise	1,010	1,602	2,612	19.26
Miscellaneous:				
Other commodities not mentioned above	219	610	829	6.12
Total tonnage	8,022	5,521	18,548	100

### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies ruu on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express.

One and one-half and one and one-tenth first-class freight rates; takes freight at depots.

Number of miles of telegraph on your road, and to whom does it belong? 12½ miles; belongs to this company.

STATE OF MICHIGAN, } ss.

McGeorge Bundy, secretary and treasurer of the Lowell & Hastings Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

Signed,

McGEORGE BUNDY.

Subscribed and sworn to before me this 30th day of April, A. D. 1897.

ZENA SLATTON, Notary Public, Kent Co., Mich.

OF THE

### MANISTEE & GRAND RAPIDS RAILROAD COMPANY,

For the year ending December \$1, 1996.

[Filed April 30, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JOHN CANFIELD, Manistee, Mich.
Vice President, LOUIS SANDS, Manistee, Mich.
Secretary, T. J. RAMSDELL, Manistee, Mich.
Auditor, E. N. SALLING, Manistee, Mich.
Treasurer, E. G. FILER, Filer City, Mich.
General Manager, JOHN CANFIELD, Manistee, Mich.
Superintendent, W.M. H. HERBERT, Manistee, Mich.
Assistant Auditor, H. W. MARSH, Manistee, Mich.
Chief Engineer, E. W. MUENSCHER, Manistee, Mich.
Cashier, H. W. MARSH, Manistee, Mich.
General Freight Agent, H. W. MARSH, Manistee, Mich.
Attorney, T. J. RAMSDELL, Manistee, Mich.

#### DIRECTORS.

E. G. FILER, Filer City, Mich.
JOHN CANFIELD, Manistee, Mich.
E. N. SALLING, Manistee, Mich.
JAMES DEMPSEY, Manistee, Mich.
R. B. BLACKEE, Manistee, Mich.
LOUIS SANDS, Manistee, Mich.
T. J. RAMSDELL, Manistee, Mich.
Terms expire January 19, 1898.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 11, 1889. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 8. Amount of full paid stock held in Michigan at same date: 50 shares. Date of annual meeting of stockholders: Third Wednesday in January. Fiscal year of company ends December 31. General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT. Debit.	Credit.
Total earnings from operation Total expenses, including taxes \$25,154 7	\$85,049 89
Net income	\$9,895 10
Balance applicable to dividends	\$9,895 10
Balance for the year	\$9,895 10
Balance, profit and loss last year	\$83,306 12
Balance forward to next year	\$93,001 22

### ANALYSIS OF CAPITAL STOCK.

Number of shares issued	Amount authorised by charter or articles of association		\$1,000,000
Total amount paid in, as per book of the company.	Number of charge issued		
Total amount paid in, as per book of the company.	Amount paid in on common Amount paid in on shares not issued (number), 5,000.	\$5,000 00 445,000 00	
ANALYSIS OF DEBT ACCOUNTS.  Total amount of stock and debt	Total amount paid in, as per book of the company		450,000 00
Stock and debt per mile of road, 44.71 miles   10,067	Paid in per mile of road owned by company, 44.71.		10,067 10
Stock and debt per mile of road, 44.71 miles   10,067	ANAL HAVO OF DEPTH ACCOUNTS		
GENERAL BALANCE SHEET.—Dr.   \$452,148 42   Equipment account			
Construction account	Total amount of stock and debt. Stock and debt per mile of road, 44.71 miles		10,067 10
Construction account	GENERAL BALANCE SHEET.—Dr.		
Requipment account		8452 148 42	
Fence account	Equipment account.		
Dock No. 2	Other investments (specifying same):		
Cash items:   S3,427 22   Sills receivable   S3,427 22   Sills receivable   S4,409 85   S,887 (Cash items:   S3,427 22   Sills receivable   S4,409 85   S,887 (Cash items:   S4,409 85   S,887 (Cash items:   S4,409 85   S,887 (Cash items:   S4,729 43   S,887 (Cash items:   S4,729 43   S,887 (Cash items:   S4,201 43   S,887 (Cash items:   S4,201 43   S,887 (Cash items:   S4,201 43   S,887 (Cash items:   S4,201 43   S,887 (Cash items:   S4,201 43   S,887 (Cash items:   S4,201 43   S,887 (Cash items:   S4,401 43   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items:   S,887 (Cash items	Fence account	2,070 29	
Cash items:  Cash second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second s	Real estate	18,837 70	
Cash	Tools	887 95	524,328 98
Other assets:  Materials and supplies			
Other assets:  Materials and supplies	Cash Bills receivable	\$3,427 22 5,409 85	8,887 07
Total			
Total GENERAL BALANCE SHEET.—CR.  Capital stock Profit and loss or income accounts 98,201 Total COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment Average cost per mile of road (not including sidings) 44.71 miles 11,288	Materials and supplies Insurance uncarned	\$9,729 43 805 74	10,035 17
Capital stock \$450,000 Profit and loss or income accounts \$8,201  Total COST OF ROAD AND EQUIPMENT.  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment \$504,470 Average cost per mile of road (not including sidings) 44.71 miles \$11,283	Total		\$543,201 22
Total COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment \$504,470 miles \$11,288 in 11,288	GENERAL BALANCE SHEET.—CE.		
Total COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment \$504,470 Average cost per mile of road (not including sidings) 44.71 miles 11.288	Capital stock		\$450,000 00
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment \$504,470  Average cost per mile of road (not including sidings) 44.71 miles 11.288			
Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment \$504,470  Average cost per mile of road (not including sidings) 44.71 miles 11.288	Total		\$548,201 22
Total expended for construction and equipment \$504,470 miles 11.288	COST OF ROAD AND EQUIPMENT.		
Total expended for construction and equipment \$504,470 Average cost per mile of road (not including sidings) 44.71 miles 11,283 Proportion of cost for Michigan, 100%.	Total cost for construction and equipment of road and branches but	lt by compan	y.
	Total expended for construction and equipment		\$504,470 11 11,288 16
CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.	CHARGES AND CREDITS TO PROPERTY DURING THE	YRAR.	
MAIN LINE.			
<del></del> ,			<b>es</b> o 040 P0
New buildings 596	New buildings		\$59,042 59 596 59
New buildings         596           New fences         687           Machinery and tools         1,068	Machinery and tools		687 10 1,058 25
			\$60,326 28
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		60,826 28
Total charges to property account as above	Property sold and credited.		1,058 25 59,268 03

### ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.

PASSENGER BARNINGS.		
Main line and branches: Local fares	\$1,042 42	
Total passenger fares.	\$1,042 42	
Total passenger department earnings		\$1,042 42
Per train mile	\$0 05 23 31	
FREIGHT EARNINGS.		
Main line and branches: Local traffic Through traffic	\$32,405 85 1,426 78	
Total traffic	\$38,832 63	
Total freight department earnings		\$33,882 63
Per train mile	\$1 58 756 71	
Total transportation earnings, entire line		\$34,875 05
Transportation earnings per mile of road Transportation earnings per train mile	\$780 02 1 62	
Miscellaneous receipts from operating account, other than for transporta- tion, as follows:	0 04	
From car mileage balance. From switching charges balance.	8 84 171 00	
Total		35,049 89
Total earnings from operation of road	\$85,049 89 783 94 1 63	
Total income from all sources. Proportion of income for Michigan, 100%.		\$35,049 89
analysis of expenses.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway Resewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves. Other expenses		\$5,991 54 2,076 76 67 21 18 98 639 89 81 48 239 53
Total		9,115 39
MAINTENANCE OF EQUIPMENT.  Bepairs and renewals of locomotives.  Bepairs and renewals of freight cars  Other expenses.		\$1,870 80 1,482 06 62 01
Total		\$8,414 87
2045-74-140 1445-7-1-04		
CONDUCTING TRANSPORTATION.		\$1 989 KG
Superintendence Engine and roundhouse men Fuel for locomotives Water appoly for locomotives		\$1,263 58 1,376 85 2,302 81 263 59
Fuel for locomotives Water supply for locomotives Oil, tallow and wate for locomotives Other supplies for locomotives		178 26 30 40
Train service. Switchmen, flagmen and watchmen		1,457 99 500 62
Loss and damage		119 67 28 75 976 45
Total		\$8,493 97
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		TO, 200 01

GENERAL EXPENSES.		
Salaries of clerks and attendants		\$840 00 141 90
Insurance. Stationery and printing (general offices).		141 90 567 01
Stationery and printing (general offices)		67 82 2,514 83
Total		\$4,130 56
RECAPITULATION OF EXPENSES.		
Maintenance of way and structures		\$9,115 89 8,414 87
Maintenance of equipment. Conducting transportation General expenses, including taxes.		8,493 97 4,130 56
Total operating expenses and taxes.		\$25,154 79
Operating expenses and taxes per train mile run, for trains earning revenue, 21,477 miles.		A1 45
Total proportion of expenses for Michigan		\$1 17 25,154 79
Percentage of expenses to earnings	71.77	221 82
Net earnings per train mile		46
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Manistee, Mich., to C. & W. M. Junction, Dec. 20, 1892. From C. & W. M. Junction to Sec. 9, T. 19 R. 11 W, July 1, 1896.		
MAIN LINE.		
In Michigan, from Manistee to Canfield Junction.	Miles.	Miles. 44.71
Total length completed		44.71
Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above	44.71	*****
enumerated	18.52	
Aggregate length of tracks in Michigan belonging to this company, computed track	l as single	58.23
Gauge of track, 4 feet 8½ inches.		
If north of parallel 44 of latitude. Yes.		
Give date road commenced to be built: December 18, 1889.		
Give date road completed to present terminus: July 1, 1896.		
Give date road commenced to be operated: May 1, 1892.		
Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.		
Give exact number of miles: 44.71 miles.		
Number of bridges and trestles in Michigan.		
	Number. L	Aggregate ength, feet.
Wooden bridges	1	105
Combination bridges. Wooden trestles	2 1	56 75
Total		286
Total ====================================		236

Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? C. & W. M. R. R. at Canfield, Mich.
M. & L. E. R. at Sec. 14, T. 19 R. 12 West, Lake Co.
G. R. & I. R. R. at Sec. 18, T. 19 R. 12 West, Lake Co.

What railroads cross your road et Under: F. & P. M. R. R. at Junction	·	ır grade in this Sta	te, and where?	
At what crossings are interlockin C. & W. M. crossing at Canfield	g and derailing switch Mich.	es in operation?		
What pattern or patterns have yo The Union Switch & Signal Con	ou adopted?	'a.		
Number of crossings of highway	at grade in this State	ə		82
	Stations	_	-	
Number of stations on whole line		•		2
	Employé	ı.	•	
Number of persons regularly empl	_	ted by company, inc	oluding officials	38
Classify your employés as per fol Brakemen	-			Number.
Conductors Engineers				2 2 20 4 2
Firemen Laborers				2 20
Shopmen Yardmen				2
Others				z
	REPAIRS AND RE	NEWALS.		
How many miles of fencing have Estimated 18 miles. Give the number of miles require and the counties in which need 54.42 miles.	d to complete fence bo	th sides of your tra-	ok in Michigan,	
Number of track sections in Mich	igan			5
Average lengths of sections, miles Average number of men in each section of new ties put in whole Number of new ties put in track Average number of new ties per n	ection gangline during the year in Michigan		}	9 4 18,091 170
New bridges built during the year	r—number, 1.		-	
Location.	Kind.	Material.	Month built.	feet in length.
Sec. 15, T. 19, R. 12, W., Little Manistee River, Lake Co	Trestle	Wood	August, 1896	75
·	BOLLING S	rock.	Pr Number. ma	esent esti- ted value.
Number of locomotives of more t	han 30 tons weight, exc	lusive of tender		\$15,284 40
				\$15,284 40
Number of box freight cars Number of platform cars Number of conductors' way cars.			90 2	\$1,826 60 81,810 40 1,888 00
Total				\$50,251 40
Number of locomotive equipped Number of freight cars equipped	with power brakes with power brakes			2 4

What patterns of power brakes have you in use, and number of locomotive and cars with each? Westinghouse on locomotive.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Janney.

MILEAGE, TRAFFIC, ETC.

Train mileage.			In Michigan.
Miles run by freight trains during the year			21,477
Total mileage of trains earning revenue			21,477
Passenger traffic.—Road all in State of M	lichigan.		
Number of local passengers carried, earning revenue	Numbers. 1,903	Miles.	Rate.
Total number of passengers carried earning revenue			
Number of passengers carried one mile. Average distance carried		45,676 24.0021	
Average amount received from each passenger. Average receipts per passenger per mile for all passengers Estimated cost of carrying each passenger one mile, all passengers a matter of accommodation.	carried in	caboose as	02.4
Freight traffic.—Road all in State of Mi	chigan.		
Number of tons of local freight carried, earning revenue	Tons.	Miles.	Rate.
Total tons of freight carried, earning revenue			
Total mileage of through freight Total mileage of local freight	}	21,477	1
Total freight mileage or tons carried one mile	•	1,636,984	į
Average ton haul for through freight	}	254,677	1
Average ton haul for all freight		254,677	į
Average amount received for each ton haul. Average receipts ton per mile, for through freight. Average receipts ton per mile, for local freight. Average receipts ton per mile, for all freight. Estimated cost of carrying one ton one mile.			} 02.06 02.06

FREIGHT TRAFFIC MOVEMENT .- ROAD ALL IN STATE OF MICHIGAN.

Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agricultural: Grain	138	16	154	94	
Flour Other mill products		10	17	.24 .03	
Other mill products	10 45	81	10 76	.02	
HayTobacco	l i	81	10	.12	
Fruit and vegetables.	6		6	.01	
Potatoes	16		16	.02	
Products of animals: Dressed meats Other packing house products	13 7		18 7	.02 .01	
Products of mines: Bituminous coal Stone, sand and other like articles.	32 30 170		82 30 170	.05 .05 .26	
Product of forest: Lumber. Logs, bark, poets and ties	299 59,568 15	3,734	299 63,297 15	.46 98.48 .02	
Manufactures: Petroleum and other oils	8		3	.00	
Sugar. Iron and steel rails	Ğ		6	.01	
Iron and steel rails	1 1		1	.00 .01	
Wagons, carriages, tools, etc	5		5	.01	
Merchandise	36		36	.06	
Miscellaneous: Other commodities not mentioned above	77		77	.12	
Total tonnage	60,494	3,781	64,275	100	

STATE OF MICHIGAN, COUNTY OF MANISTEE. }88.

John Canfield, president, and H. W. Marsh, assistant auditor of the Manistee & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN CANFIELD, President. H. W. MARSH, Asst. Auditor.

Subscribed and sworn to before me this 29th day of April, A. D. 1897.

[L. s.]

C. C. Young, Notary Public.

OF THE

MANISTEE & NORTHEASTERN RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed April 26, 1897.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, EDWARD BUCKLEY, Manistee, Mich.

Vice President, WILLIAM DOUGLAS, Manistee, Mich.

Secretary (Acting), EDWARD BUCKLEY, Manistee, Mich.

Auditor, ROBERT PORTEOUS, Manistee, Mich.

Treasurer (Acting), EDWARD BUCKLEY, Manistee, Mich.

General Manager, EDWARD BUCKLEY, Manistee, Mich.

General Superintendent, WILLIAM DOUGLAS, Manistee, Mich.

Assistant General Superintendent, EDWARD MCFADZEN, Manistee, Mich.

Chief Engineer, J. J. HUBBELL, Manistee, Mich.

General Passenger Agent, F. A. MITCHELL, Manistee, Mich.

General Freight Agent, F. A. MITCHELL, Manistee, Mich.

DIRECTORS.

EDWARD BUCKLEY, Manistee, Mich. WILLIAM DOUGLASS, Manistee, Mich. CHARLES G. WILSON, Manistee, Mich. ALBERT WILSON, Manistee, Mich. T. J. ELTON, Manistee, Mich. Terms expire January 7, 1897.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 7, 1887. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Date of annual meeting of stockholders: January 7th each year. Fiscal year of company ends December 31. General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT. Debit.	Credit.
Total earnings from operation. \$124,356	
Net income.	
Interest on unfunded debt	38
Balance for the year (profit). Balance (profit and loss) last year	2,500 75
Balance forward to next year	252,130 42

ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		\$100 00		\$2,000,000 00
Par value of shares Number of shares issued	20,000		\$525,765 97	
Amount paid in on common			\$520,700 97	
Total amount paid in, as per books of the company				525,765 97
Paid in per mile of road owned by company, 90.50 miles				5,809 57
			:	

ANALYSIS OF DEBT ACCOUNTS.

UNFUNDED DEBT.			
For what incurred.	Is the same to be funded or how liquidated?	Amount.	
For construction. For equipment. For real estate For miscellaneous For current balances.	To be paid	\$1,527,434 28	
	RECAPITULATION.		
Total unfunded debt		\$1.527,434 28	
Amount of debt liabilities per mil Total amount of stock and debt	e of road, 90.50 miles.	16,877 73 2,053,200 25	
Stock and debt per mile of road,	90.50 miles	22,687 29	
G	ENERAL BALANCE SHEETDr.		
Construction account		\$1,478,699 27 198,182 95	
Other investments:			
Real estate, etc. Manistee driving park stock North Side park stock	\$1,750 00 250 00	103,094 97 2,000 00	
Cash items:		2,000 00	
	\$27,296 15 5,479 88	32,716 03	
Other assets:			
Materials and supplies. Debit balances from companies a Balance	and individuals	10,268 75 5,163 08 252,180 42	
	······	\$2,077,250 42	
, G	ENERAL BALANCE SHEET.—Cr.		
Capital stock		\$525,765 97	
Unfunded debt:			
Interest unpaid	\$1,537,434 28		
Vouchers and accounts	24,050 17	1,551,484 45	
Total			

201,375 03

COST OF ROAD AND EQUIPMENT.

Total cost for construction and e	covinment of road and	l branches built by company.

Total expended for construction and equipment. Average cost per mile of road (not including sidings), 90.50 miles. Proportion of cost for Michigan	\$1,774,977 19 19,618 00 19,618 00

CHARGES AND CREDITS TO PROPERTY DURING THE YEAR

CHARGES AND CREDIT	S TO PROPI	ERTY DURI	NG THE	YEAR.	
	Extensions and new sidings.	New buildings.	New fences.	Machinery and tools.	Total.
Main line Branches Sidings	\$110 06 2,796 97 2,189 12	\$308 85	\$103 91	1	\$972 54 4,986 09
Total charges	\$5,096 15	\$380 85	\$103 91	\$449 72	\$5,958 63
Total charges to property account as above Net addition to property account		•••••		••••••	\$5,958 63 5,958 68
ANALYSIS OF EARNINGS	S-KUAD AL BSENGER EAR		S OF MIC	HIGAN.	
Main line and branches: Local fares Through fares				\$32,500 45 5,976 84	
Total passenger fares		•		\$88,476 79	
Express and baggage				1,202 95 4,418 34	
Total passenger department earnings					44,098 08
Per train mile				\$0 41 608 50	
Main line and humaneses:	REIGHT BARN				
Local traffic	••••••			145,879 05 10,812 27	
Total traffic	-			\$156,191 32	
Total freight department earnings	•••••	·			156,191 32
Per train mile Per mile of road			· · · · · · · · · · · · · · · · · · ·	\$1 73 1,725 87	
Total transportation earnings, entire line Transportation earnings per mile of road, 9 Transportation earnings per train mile Miscellaneous receipts from operating according	0.50	han for trai	asporta-	2,213 14 1 01	\$200,289 40
tion, as follows: From telegraph companies From other sources, news agency and acc					819 38 266 25
Total				•	\$201,375 03
Total earnings from operation of road 55. Total earnings per mile of road, 90.50 mile Total earnings per train mile Total earnings per train mile Total taxable earnings per mile of road in l	00 miles north of para Michigan, 65.5	llel 44 of lati	tude		185,889 77 15,485 26 2,225 14 1 01 185,889 77 2,838 01
Total income from all sources				_	\$201,375 03
					004 005 00

Proportion of income for Michigan.

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Total MAINTENANCE OF EQUIPMENT. Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger care Repairs and renewals of feight cars Stationery and printing Other expenses	\$19,749 28 25 75 6,677 10 227 78 248 52 708 60 147 44 124 99 \$27,909 46 \$27,909 46 \$1,953 88 4,765 68 125 00 58 02
Total	\$16,428 46
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men Froel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives. Train service. Train supplies and expenses. Switchmen, flagmen and watchmen Telegraph expenses Station service. Station service. Station supplies. Car mileage—balance Loes and damage Clearing wrecks. Stationery and printing. Other expenses	\$1,620 00 11,625 50 20,616 50 818 07 1,367 17 11,367 79 263 64 1,120 95 2,338 85 9,545 49 876 86 872 22 21 39 95 975 26
Total.	\$64,212 40
GENERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes. Total	\$8,701 44 2,722 12 1,657 88 3,331 10 249 98 280 72 3,863 32 \$15,806 01
RECAPITULATION OF EXPENSES. Per cent of expenses. Maintenance of way and structures. 22.44 Maintenance of equipment. 13.22 Conducting transportation 51.63 General expenses, including taxes 12.71	\$27,909 46 16,428 46 64,212 40 15,806 01
Total operating expenses and taxes	\$124,356 35
Operating expenses and taxes per mile of road, 90.50 miles. Operating expenses and taxes per train mile run, for trains, earning revenue, 198,469 miles Proportion of operating expenses and taxes for Michigan, main line	\$1,874 10 62 124,856 33
Total proportion of expenses for Michigan	\$124,356 33
Percentage of expenses to earnings 61.8 Net earnings per mile of road	851 08 85.80

DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Manistee, Mich., to Traverse City, Mich., July 1, 1892. Line opened as follows: Main Line— Manistee, Mich., to Onekama, Mich., January 14, 1889. Manistee, Mich., to Peters Camp, Mich., May 1, 1890. Manistee, Mich., to Lake Ann, Mich., October 13, 1890. Manistee, Mich., to Traverse City, Mich., July 1, 1892.	
MAIN LINE. Miles.	Miles
In Michigan, from Manistee to Traverse City. 69.76 In Michigan, from Manistee City to Tannery 1.00	WITTE
Total length completed	70.76
BRANGHES.	
From Manistee, Mich., to Harbor	
Total length of branches owned by company	19.74
Total length of road belonging to this company in Michigan	90.50 21.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	111.50
Gauge of track, 4 feet 81/2 inches.	
If north of parallel 44 of latitude? From Lake Ann, Mich., to Traverse City, Mich.	
Give date road commenced to be built: Oct. 1, 1891.	
Give date road completed: July 1, 1892.	
Give date road commenced to be operated: July 1, 1892.	•
Where built from and to: From Lake Ann, Mich., to Traverse City, Mich.	
Give exact number of miles: 17.86 miles.	
Number of bridges and trestles in Michigan.	
Wooden hulders number of 14. aggregate length 600 feet	

Wooden bridges, number of, 14; aggregate length, 600 feet.

Draw bridges in Michigan.

How many on your line? One.

Where located, when built and length of draw span?
Manistee, Mich., January, 1889. Length of draw open 160 feet.

Character of structure? Howe truss.

Material of which constructed. Wood and iron.

Height above water, and depth of water under bridge. 12 feet; 14 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Curved.

Do you require all trains to come to fall stop before crossing a draw, and how are they signaled? Yes. By Gravett derailing semaphore.

Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Flint & Pers Marquette R. R. at Manistee, Mich. C. & W. M. R. R. at Manistee Crossing, Mich. Ann Arbor R. R. at Copemish, Mich. Chicago & W. M. R. at Interlephen, Mich.	
Chicago & W. M. R. R. at Interlochen, Mich. Chicago & W. M. R. R. at Bear Creek Br. Crossing, Mich Chicago & W. M. R. R. at Traverse City, Mich.	
At what crossings are interlocking and derailing switches in operation? Flint & Pere Marquette R. B., Manistee, Mich. Chicago & W. M. R. B., Manistee Crossing, Mich. Chicago & W. M. R. R., Interlochen, Mich. Chicago & W. M. R. R., Paar Creek Br. Crossing, Mich.	
What pattern or patterns have you adopted? Gravett.	
Number of crossings of highways at grade in this State Number of crossings at which there are electric or automatic signals	60 1
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.	
How are they treated? Mostly wood, some with steel. Stations.	
Number of stations on whole lines: 14 regular, and 7 flag stations. Employés.	•
Number of persons regularly employed on all roads operated by company, including officials	179
Classify your employée as per following list:	Number.
Baggagemen Brakemen Conductors	11 7
Engineers.	7
FiremenLaborers	7 41 18
Shopmen. Yardmen. Others.	18 2 89
REPAIRS AND RENEWALS.	
Fen <u>ci</u> ng in Michigan.	
How many miles of fencing have you?. Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	611/4
Manistee county	Miles.
Benzie county	11
Grand Traverse county Leelanaw county	22 12
Total miles required	89
Road bed and track.	
Number of track sections in Michigan.	10
Average lengths of sections, miles. Average number of men in each section gang. Number of new ties put in whole line during the year.	7
Number of new ties put in whole line during the year	54,816 54,316
Average number of new ties per mile of road.	
	600
ROLLING STOCK	
Number. m	resent esti-
Number of locomotives of more than 30 tons weight, exclusive of tender	resent esti- ated value. \$48,670 52
Number of locomotives of more than 30 tons weight, exclusive of tender	Present esti- ated value. \$48,670 52 \$43,670 52
Number of locomotives of more than 30 tons weight, exclusive of tender	Present esti- ated value. \$48,670 52 \$43,670 52
Number of locomotives of more than 30 tons weight, exclusive of tender	Present esti- nated value. \$48,670 52 \$43,670 52 16,514 49 2,978 31 2,617 20
Number of locomotives of more than 30 tons weight, exclusive of tender 8	Present esti- nated value. \$43,670 52 \$43,670 52 16,514 49 2,973 31 2,617 20 76,495 02 2,085 86
Number of locomotives of more than 30 tons weight, exclusive of tender	Present esti- nated value. \$43,670 52 \$43,670 52 16,514 49 2,978 31 2,617 20 76,495 02

Number of passenger-train cars equipped with power brakes 7.

Number of freight cars equipped with power brakes 1.

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse air brakes : 6.

American steam brakes : 2.

Box cars, Westinghouse air brakes : 1.

Passenger cars, Westinghouse air brakes : 7.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

Yes.

What pattern or patterns have you adopted for use?

Dowling, M. C. B. and Gould. Draw head coupler.

How are your passenger cars heated.

Combination Baker heater, with McElroy steam heat, Consolidated Heating Co's system.

MILEAGE, TRAFFIC, ETC.

BOAD ALL IN STATE OF MICHIGAN.

Train mileage.			All in Michigan
Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains Total milesge of trains earning revenue. Five work trains		······································	104,806 87,111 6,552 198,469 4,724
Grand total train mileage			208,193
Passenger traffic.			
Number of through passengers carried, earning revenue	Numbers. 8,168 66,467	Miles.	Rate.
Total number of passengers carried, earning revenue	74,630		
Number of passengers carried one mile Average distance carried Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers. Average receipts per passenger per mile for all passengers			\$0 51.5 02.2 02.2 02.2 02.2
Freight traffic.			
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 16,115 243,149	Miles.	Rate.
Total tons of freight carried, earning revenue	259,264		
Total mileage of through freight Total mileage of local freight		436,342 8,116,218	
Total freight mileage or tons carried one mile		8,552,560	
Average ton haul for through freight Average ton haul for local freight		. 27 . 33.4	
Average ton haul for all freight		33.4	
Average amount received for each ton haul. Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight.		•••••	\$0 60 02.5 01.8 01.8
49			

MICHIGAN RAILROAD RETURNS, 1896.

FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain.	692	651	1,848	.51	
Flour Other mill products.	383	368	701	.27	
Other mill products	114 879	348	462	.18 .80	
Hay Fruit and vegetables	1.199	1,702 34	2,081		
Potatoes	1,1007	6	1,238 708	. 44 . 8 7	
Products of animals:					
Live stock.	147	36	183	.07	
Dressed meats Other packing house products	74	.2	76	.08	
Poultry game and fish	66 171	11 120	77 291	.08 .11	
Wool	- 'î	المد	1	.11	
Poultry, game and fish	378	407	780	.80	
Products of mines:					
Anthracite coal		185	185	.07	
Bituminous coal	1,964	201	2,165	.88	
Coke		88	88	.01	
Oree	114	28	142	.05	
Salt.	3,904	1	3,905	1.57	
Products of forest:		450		44	
Lumber	29,840 192,809	152 1 6 0	29,992 192,989	11.58 74.47	
LogsShingles and lath	6,530	160 24	6,554		
Bark	4,368	104	4,472	2.52 1.75	
Manufactures :					
Petroleum and other oils	158	381	484	. 19	
Sugar	24	161	185	.07	
Iron, pig and bloom		187	187	.07	
Other castings and machinery	441 70	458	899	.80	
Cement, brick, and lime	120	387 106	407 228	.16	
Wines lignors and been	216	449	665	.25	
Honsehold goods and furniture	111	241	685	. 25 . 25	
Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture. Hames and hoops.	1,292	1,857	2,649	1.02	
Merchandise	1,816	511	1,827	.70	
Miscellaneous:					
Other commodities not mentioned above	1,926	648	2,569	.99	
Total tonnage	249,777	9,356	259,183	100	

ADDITIONAL QUESTIONS.

Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

A general transportation business on a pro rata basis as to rates.

Take their freight at the depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Seventy-six miles. Manistee & North Eastern B. R. Co.

[Fast freight lines.

To what fast freight, lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this state upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.		
Armour Car Lines American Refrigerator Transit Co. Burton Stock Car Co. Blue Line Commercial Despatch.	Chicago, Ill. St. Louis, Mo. Chicago, Ill. Rochester, N. Y. Cleveland, O. Rochester, N. Y.	1 198		
Canada Southern Line	Bochester, N. Y.	10 61		
Chicago Refrigerator Line. Canadian Pacific Despatch. California Fruit Transit Co. Brie Despatch. Empire Line.	Boston, Mass. Chicago, Ill. Cleveland, O.	. 80 60 88		
Great Eastern Line International Fruit Dealers' D. L. Merchants' Despatch Transportation Co. National Despatch Line New York Despatch Line	New York, N. Y. Boston, Mass.	17 59 8 02		
North & South R. Stock Co. Oeborn Sargar Coal Tr. Co. Red Line Southern Despatch Lumber Line Southern Iron Car line	Cleveland, Ohio Buffalo, N. Y. Louisville, Ky.	6 38 2 64		
Union Tank Line Union Refrigerator Transit Co White Line Western Equipment Car Co Mather Stock Car Co	St. Louis, Mo. Buffalo, N. Y. Indianapolis, Ind.	. 1 92 1 93 48		

REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1806.

INJURED.

March 2, Michael Doyle, Goodrich Crossing, Mich. Stepped off platform of rear coach when train was running at rate of 20 miles an hour. Was somewhat under the influence of liquor. Injury to head.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Comment and analysis		Killed.		Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Palling from trains				1		
Total				1		

SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year Number resulting from lack of caution, carelessness or misconduct Persons killed or injured while intoxicated.	1 1 1
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STATE OF MICHIGAN, SS. COUNTY OF MANISTEE,

Edward Buckley, president and general manager, and Robert Porteous, auditor, of the Manistee & Northeastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having exercilly examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

EDWARD BUCKLEY, President. ROBERT PORTEOUS, Auditor.

Subscribed and sworn to before me this 16th day of April, A. D. 1897.

[L. S.]

D. O. ANDERSON, Notary Public.

OF THE

MANISTEE & NORTHEASTERN RAILROAD COMPANY,

(SUPPLEMENTARY)

For the year ending December \$1, 1896.

[Filed April 26, 1897.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

The same as Manistee & Northeastern.

DIRECTORS.

The same as Manistee & Northeastern.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

See general report for Manistee & Northeastern.

ANALYSIS OF EARNINGS .- ROAD ALL IN STATE OF MICHIGAN.

PASSENGER EARNINGS.		
Main line and branches: Local fares Through faree	\$7,098 86 750 09	
Total passenger fares	\$7,848 95	
Express and baggage	195 46 1,136 14	
Total passenger department earnings		\$9,180 55
Main line and branches: Local traffic Through traffic	\$6,038 60 266 11	
Total traffic	\$6,304 71	
Total freight department earnings		6,804 71
Total transportation earnings, entire line		\$15,485 26

DESCRIPTION OF ROAD.

If north of parallel 44 of latitude: Yes.
Give date road commenced to be built: October 1, 1891.
Give date road completed: July 1, 1892.
Give date road commenced to be operated: July 1, 1892.
Where built from and to: Lake Ann to Cedar City and Traverse City, Mich.
Give exact number of miles: 25.

STATE OF MICHIGAN, } ss.

Edward Buckley, president and general manager, and Robert Porteous, auditor, of the Manistee & Northeastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

EDWARD BUCKLEY, President. ROBERT PORTEOUS, Auditor.

Subscribed and sworn to before me this 16th day of April, A. D. 1897.
[L. S.]

D. O. ANDERSON, Notary Public.

OF THE

MANISTIQUE RAILWAY COMPANY,

For the year ending December \$1, 1996.

[Filed February 24, 1897.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. S. SMITH, Detroit, Mich.
Vice President, LEWIS A. HALL, Bay Mills, Mich.
Secretary, J. C. McCAUL, Detroit, Mich.
Auditor, G. H. STALKER, Detroit, Mich.
Treasurer, J. C. McCAUL, Detroit, Mich.
General Superintendent, JOHN MILLEN, Black River, Mich.
Assistant General Superintendent, WM. GREEN, Grand Marais, Mich.
General Passenger Agent, J. F. CHISHOLM, Grand Marais, Mich.

DIRECTORS.

B. A. ALGER, Detroit, Mich. M. S. SMITH, Detroit, Mich. J. C. MCCAUL, Detroit, Mich. LEWIS A. HALL, Bay Mills, Mich. R. K. HAWLEY, New York, N. Y. G. H. STALKER, Detroit, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 18, 1886. Articles amended October 21, 1889. Number of stockholders: 9. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date. \$114,800.00. Date of annual meeting of stockholders: Not fixed. Fiscal year of company ends December 31. General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.	
Debit.	Credit.
Total earnings from operation Total expenses, including taxes	\$116,713 28
Net income	\$42,868 70
Interest on unfunded debt	
Balance applicable to dividends	\$37,454 14
Balance for the year	\$37,454 14 207,955 60
Balance forward to next year	\$245,409 74

ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.	\$500,000 00
## Amount authorised by charter of articles of association \$100	
Total amount paid in, as per books of the company	150,000 00
Paid in per mile of road owned by company (59.50 miles)	2,521 01
ANALYSIS OF DEBT ACCOUNTS.	
UMFUNDED DEST.	
Total unfunded debt	\$88,493 38
RECAPITULATIOM.	
Total unfunded debt	\$88,493 88
Total debt liabilities	\$88,493 28
Amount of debt liabilities per mile of road, 59.50 miles. Total amount of stock and debt	1,487 28 288,493 88 4,008 29
GENERAL BALANCE SHRET.—Dr.	
Construction account	\$395,878 62 75,849 21
Cash items: Cash #1,214 29	10,049 21
Other assets:	1,214 29
Materials and supplies.	11,466 00
Total	\$488,908 12
GENERAL BALANCE SHRET.—Cr.	
Capital stock	\$150,000 00
Unfunded debt:	41,082 42
Notes payable Vouchers and accounts Profit and loss or income accounts	47,460 96 245,409 74
Total	\$488,908 12
COST OF BOAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	
Total expended for construction and equipment. Average cost per mile of road (not including sidings) 59.50 miles.	\$471,222 88 7,919 71
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.	
Main line and branches: Local fares \$9,244 99	
Total passenger fares. 99,244 99	
Mails 1,753 16	
Total passenger department earnings	\$10,996 15
Per mile of road\$184 84	•

PREIGHT BARNINGS.		
Main line and branches: Local traffic :	\$105,565 13	
Total freight department earnings		\$105,565 18
Per mile of road	\$1,774 20	
Total transportation earnings, entire line		\$116,563 28
Transportation earnings per mile of road. Transportation earnings per train mile.	\$1,959 04 1 81	
Miscellaneous receipts from operating accounts, other than for transportation, as follows: From rents not otherwise provided for	\$150 00	
		\$116,713 28
Total earnings from operation of road Total earnings per mile of road	\$1,961 57	\$116,713 28
Total earnings per train mile. Proportion of taxable earnings for Michigan. Total taxable earnings per mile of road in Michigan.	1 82 116,718 28 1,961 57	
Total income from all sources		116,713 28
Proportion of income for Michigan		116,713 28
ANALYSIS OF EXPENSES.		
Maintenance of ways and structures		\$23,706 99
Maintenance of equipment.		\$13,131 50
Conducting transportation		\$34,072 11
GENERAL EXPENSES.		
Insurance Stationery and printing (general offices) Other expenses		\$150 50 44 69
Tavas		44 69 894 23 2 844 56
Taxes		2,844 56
Taxes Total.		394 23 2,844 56 \$2,938 98
Total Total		2,844 56
Taxes		2,844 56 \$2,938 98
Total RECAPITULATION OF EXPENSES.	Per cent of expenses.	2,844 56 \$2,938 98
Total RECAPITULATION OF EXPENSES.	Per cent of expenses. \$2.10 17.79 46.14	\$2,933 98 \$2,933 98 \$23,706 99 13,131 50 34,072 11
Total Total	Per cent of expenses. \$2.10 17.79 46.14 3.97	2,844 56 \$2,933 98 \$23,706 99 13,131 50 34,072 11 2,933 98
Total RECAPITULATION OF EXPENSES.	Per cent of expenses. \$2.10 17.79 46.14	\$2,933 98 \$2,933 98 \$23,706 99 13,131 50 34,072 11
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.	Per cent of expenses. \$2.10 17.79 46.14 8.97	2,844 56 \$2,933 98 \$23,706 99 13,131 50 34,072 11 2,933 98
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes. Total operating expenses and taxes Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue,	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,938 98 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,983 98 \$73,844 58 \$1,241 09 1 15
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes. Total operating expenses and taxes Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue,	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,938 98 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,983 98 \$73,844 58 \$1,241 09
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes Total operating expenses and taxes	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,844 58 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,933 98 \$773,844 58 \$1,241 09 1 15
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes. Total operating expenses and taxes Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue,	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,844 58 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,933 98 \$773,844 58 \$1,241 09 1 15
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, Percentage of expenses to earnings Net earnings per mile of road. Net earnings per train mile.	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,844 58 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,933 98 \$773,844 58 \$1,241 09 1 15
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes. Total operating expenses and taxes per mile of road. Operating expenses and taxes per mile run, for trains, earning revenue, Percentage of expenses to earnings Net earnings per mile of road Net earnings per train mile. DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Germfask to Grand Marais, October 15, 1893.	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,844 58 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,933 98 \$773,844 58 \$1,241 09 1 15
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, Percentage of expenses to earnings Net earnings per mile of road. Description of Road. Description of Road.	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles.	\$2,844 58 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,933 98 \$773,844 58 \$1,241 09 1 15
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes. Total operating expenses and taxes per mile of road. Operating expenses and taxes per mile run, for trains, earning revenue, Percentage of expenses to earnings Net earnings per mile of road Net earnings per train mile. DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Germfask to Grand Marais, October 15, 1893.	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles63	\$2,944 58 \$2,938 98 \$23,706 99 13,131 50 34,072 11 2,933 98 \$78,844 58 \$1,241 09 1 15 720 48 67
Total RECAPITULATION OF EXPENSES. Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, Percentage of expenses to earnings Net earnings per mile of road Net earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Germfask to Grand Marais, October 15, 1883.	Per cent of expenses. \$2.10 17.79 46.14 8.97 100 64,180 miles63	\$2,844 56 \$2,938 98 \$23,706 99 13,131 50 34,071 12,983 98 \$73,844 58 \$1,241 09 1 15 720 48 67

BRANCHES.

From Grand Marais Junction to Hall & Buell Camp	
From Main Line to Starr 4	
Total length of branches owned by company	20
Total length of branches owned by company in Michigan 20	
Total length of road belonging to this company. Total length of road belonging to this company in Michigan	59.50
Aggregate length in Michigan of sidings, spurs, and other tracks not above	
enumerated	
track	67.50
Gauge of track, 4 feet 8⅓ inches.	
Number of bridges and trestles in Michigan.	Aggregate
Number. I	ength, feet.
Wooden bridges 2 Combination bridges 1	225 300
Combination bridges 1	300
Total 8	525
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality?	
D. S. S. & A. R. R. at Seney.	
At what crossings are interlocking and derailing switches in operation? Sency.	
What pattern or patterns have you adopted? Gravit.	
Number of crossings or highways at grade in this State. Number of crossings of highways at grade in this State at which there are gates or flagmen	1
Are your frogs and guard rails blocked as required by Session Laws of 1883? Yes.	_
How are they treated?	
Bolted and blocked with two inch plank.	
Stations.	
Number of stations on whole lines	
Same in Michigan	ī
Employés.	
Number of persons regularly employed on all roads operated by company, including official	le.
(all in Michigan)	. 30
Classify your employée as per following list:	
Classify your employee as per tonowing rise:	Number.
Baggagemen	1
BrakemenConductors	6 8
Engineers	3
Firemen	3 8 1
LaborersShopmen.	10
Yardmen	
Others	1 1
REPAIRS AND RENEWALS.	
Road bed and track.	
Number of track sections in Michigan	6
Average length of sections (miles)	4
Average number of men in each section gang Number of new ties put in whole line during the year	30,000
Number of new ties put in track in Michigan	30,000
Average númber of new ties per mile of road	505
44	====

BOLLING STOCK.

Number of locomotives of more than 30 tons weight, exclusive of tender		Present esti- nated value. \$22,686 48
Total	3	\$22,686 48
Number of passenger cars and baggage combination—8-wheel, including official cars Number of box freight cars Number of platform cars Number of conductors' way cars Other cars as follows: Log cars Total	1 1 95 3 40	\$3,100 450 33,593 43 1,627 00 8,420 75
Number of locomotives equipped with power brakes		3 1

What patterns of power brakes have you in use, and number of locomotives and cars with each? American on locomotives. Westinghouse on passenger car.

MILEAGE, TRAFFIC, ETC.

Miles run by freight trains during the year. Miles run by mixed trains Total mileage of trains earning revenue. Passenger traffic.—In State of Michigan. Numbers. Miles.	In Michigan. 39,580 24,600 64,180
Passenger traffic.—In State of Michigan.	64,180
Numbers. Miles.	
Number of local passengers carried, earning revenue	Rate.
Total number of passengers carried, earning revenue 11,500	
Number of passengers carried one mile	\$0 80 04 04
Freight traffic.—In State of Michigan	
Tons. Miles. Number of tons of local freight carried, earning revenue	Rate.
Total tons of freight carried, earning revenue	
Total mileage of local freight 64,180 Total freight mileage or tons carried one mile 5,026,585 Average ton haul for local freight 26.61	
Average ton haul for all freight 25.61	
Average amount received for each ton haul Average receipts ton per mile, for local freight. Average receipts ton per mile, for all freight.	\$0 00.559 .021 .021

MANISTIQUE RAILWAY COMPANY.

FREIGHT TRAFFIC MOVEMENT .- ROAD ALL IN STATE OF MICHIGAN.

Company's material excluded.

	Freight originating	Freight received from connecting		it tonnage.
Commodity.	on this road.		Whole tons.	Per cent.
Products of forest: Logs. Shingles	184,123 500		184,128 500	97.47 .26
Merchandise: Lumbermen's supplies	4,272		4,272	2.27
Total tonnage	188,895		188,895	100.00

STATE OF MICHIGAN, } 85.

M. S. Smith, president, and J. C. McCaul, secretary, of the Manistique Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief. Signed,

[L. S. OF R. R.]

M. S. SMITH, J. C. MoCAUL.

Subscribed and sworn to before me this 23d day of February, A. D. 1897. [L. 8.]

G. H. STALKER, Notary Public.

OF THE

MANISTIQUE & NORTHWESTERN BAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WILLIAM H. HILL, Manistique, Mich. Vice President, ROBERT M. CHERRIE, Chicago, Ill. Secretary and Treasurer, J. D. MERSEREAU, Manistique, Mich, General Manager, WILLIAM H. HILL, Manistique, Mich. Superintendent, JOHN A. ROBINSON, Manistique, Mich.

DIRECTORS.

ROBERT M. CHERRIE, Chicago, Ill.
ABIJAH WESTON, Painted Post, N. Y.
WILLIAM H. HILL, Manistique, Mich.
GEO. H. ORE, Manistique, Mich.
MARTIN H. QUIOR, Manistique, Mich.
JOHN D. MERGEREAU, Manistique, Mich.
HENRY DUVALL, Manistique, Mich.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered: April 25, 1891.
Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 5.
Amount of full paid stock at same date: \$740.00.
Date of annual meeting of stockholders: First Monday in September.
Fiscal year of company ends December 31.
General offices of the company are located at Manistique, Mich.

REMARKS.

The Manistique & Northwestern Railway Co. was surveyed in 1892-'93, Manistique, Michigan, to Negaunee, Michigan (about 90 miles). About 21 miles of grading was done in 1895 and 1896, 11 miles of rail has been laid and ballasting will be done the coming year. The stockholders have advanced the necessary funds for construction expense.

REPORT FOR THE YEAR ENDING DECEMBER 31, 1896.

Total expenses including taxes Interest on current accounts	\$82,099 42 2,800 00
Balance forward to next year	1,619 91
ANALYSIS OF CAPITAL STOCK.	
Authorized by charter	\$1,600,000 00
Number of shares issued 1,050 \$105,000 00	
Total amount paid in as per books of the company, 1,050 shares	105,000 00

ANALYSIS OF DEBT ACCOUNT.

Unfunded debt for current balances.	\$1,619 91
GENERAL BALANCE SHEETDE.	
Construction account, 1898. Equipment account, 1898. Interest account, 1898. Construction and equipment expense for 1895.	\$90,421 21 51,678 21 2,800 00 21,720 49
Total	\$106,619 91
GENERAL BALANCE SHEET.—Cr.	
Capital stock paid in	\$105,000 00 1,619 91
Total	\$105,619 91
DESCRIPTION OF ROAD.	
North of parallel 44 of latitude. Claiming exemption from taxation under Act 174, Session Laws of 1891. Commenced to build road, Sept., 1895.	
ROLLING STOCK.	
One locomotive, 20 to 30 tons weight. One locomotive, 10 to 20 tons weight. Thirty platform cars. Three boarding cars. Three boarding cars.	\$4,000 00 1,500 00 3,000 00 2,250 00 300 00
Total	\$11,050 00

STATE OF MICHIGAN, 388.

Martin H. Quick and George H. Orr, directors of the Manistique & Northwestern Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

MARTIN H. QUICK.

[L. S. OF R. R.]

Signed,

MARTIN H. QUICK, GEORGE H. ORR.

Subscribed and sworn to before me this 29th day of March, A. D. 1897. [L. 8.]

CARBY W. DUNTON, Notary Public.

OF THE

MASON & OCEANA RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed January 18, 1897.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. F. BUTTERS, Ludington, Mich. Vice President, R. G. PETERS, Manistee, Mich. Secretary, M. F. BUTTERS, Ludington, Mich. Treasurer, HORACE BUTTERS, Ludington, Mich. General Superintendent, M. Modermott, Ludington, Mich. Chief Engineer, OTTO WREGE, Ludington, Mich.

DIRECTORS.

	•		
M. P.	BUTTERS.	Ludington.	Mich.

R. G. PETERS, Manistee, Mich.

J. H. Lyons, Ludington, Mich.

H. BUTTERS, Ludington, Mich. G. N. STRAY, Ludington, Mich.

Term expires January 9, 1898.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 9, 1886. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 5. Amount of full paid stock held in Michigan at same date: \$150,000.00. Date of annual meeting of stockholders: Second Monday in January. Fiscal year of company ends: December 81. General offices of the company are located at Ludington, Mich.

		 -	\$50,000 00
For renewals			\$50,000 00
For what incurred.	Is the same to be funded or how liquids	sted.	Amount.
	UNFUNDED DEBT.		
Paid in per mile of road owned by company			
Total amount paid in, as per books of the company			150,000 00
Par value of shares Number of shares issued	r articles of association	\$100 00 150,000 00	\$150,000 00
	ANALYSIS OF CAPITAL STOCK.		
Total earnings from operation			\$14,846 81
	GENERAL EXHIBIT.	Debit.	Credit.

RECAPITULATION.

Total unfunded debt		\$50,000 00
Total debt liabilities		\$50,000 00
Amount of debt liabilities per mile of road, 27 miles		1,851 85 7,407 50
Stock and debt per mile of road, 2/ miles	•••••••	7,407 50
GENERAL BALANCE SHEET,Dr.		
	e14E 000 00	
Construction account	\$145,000 00 50,000 00	e107 000 00
Other assets:		\$195,000 00
Materials and supplies.	\$5,000 00	5,000 00
Total		\$200,000 00
GENERAL BALANCE SHEET.—Cr.		
Capital stock		\$150,000 00
Other liabilities		50,000 00
Total		\$200,000 00
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built	by company	ı .
Total expended for construction and equipment.		\$195,000.00
Total expended for construction and equipment		\$195,000 00 7,222 22 7,222 22
I IONOR MORE OF COST FOR WINDINGSON		1,000
PASSENGER BARNINGS.		
Main line and branches:	01 0EO E1	
Main line and branches: Local fares	\$1,652 51	
Main line and branches:	\$1,652 51 \$1,652 51	
Main line and branches: Local fares		
Main line and branches: Local fares	\$1,652 51 1,256 20	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings	\$1,652 51 1,256 20	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails.	\$1,652 51 1,256 20	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile	\$1,652 51 1,256 20 80 17	\$2,906 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings.	\$1,652 51 1,256 20 80 17 107 78	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile	\$1,652 51 1,256 20 80 17	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile. Per mile of road. PERIGHT BARNINGS. Main line and branches:	\$1,652 51 1,256 20 80 17 107 78	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile Per mile of road. FREIGHT EARNINGS. Main line and branches: Local traffic.	\$1,652 51 1,256 20 \$0 17 107 78 \$11,438 10 \$11,438 10	\$2,908 71 11,438 10
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile	\$1,652 51 1,256 20 80 17 107 78 \$11,438 10 \$11,438 10	
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile Per mile of road. Main line and branches: Local traffic Total traffic Total freight department earnings Per train mile Per mile of road	\$1,652 51 1,256 20 \$0 17 107 78 \$11,438 10 \$11,438 10 \$0 88 428 64	11,438 10
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile Per mile of road. Main line and branches: Local traffic. Total traffic. Total freight department earnings Per train mile Per mile of road. Total transportation earnings, entire lines.	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10	
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile . Per mile of road. Main line and branches: Local traffic . Total traffic . Total freight department earnings Per train mile . Per mile of road . Total transportation earnings, entire lines . Transportation earnings per mile of road . Transportation earnings per train mile .	\$1,652 51 1,256 20 \$0 17 107 78 \$11,438 10 \$11,438 10 \$428 64 581 36 46	11,438 10
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile . Per mile of road. Main line and branches: Local traffic . Total traffic . Total freight department earnings Per train mile . Per mile of road . Total transportation earnings, entire lines . Transportation earnings per mile of road . Transportation earnings per train mile .	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10 \$11,438 64	11,438 10
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile . Per mile of road. Main line and branches: Local traffic. Total traffic. Total freight department earnings Per train mile . Per mile of road. Total transportation earnings, entire lines. Transportation earnings per mile of road . Transportation earnings per mile of road . Transportation earnings per mile of road . Total transportation earnings per mile of road . Total transportation earnings per mile of road . Total transportation earnings per mile of road . Total transportation earnings per mile of road in Michigan . Total taxable earnings per mile of road in Michigan .	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10 \$1,438 10 \$1,438 45 14,346 81 531 36	11,438 10 314,346 81
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings Per train mile . Per mile of road. Main line and branches: Local traffic . Total traffic . Total freight department earnings Per train mile . Per mile of road . Total transportation earnings, entire lines . Transportation earnings per mile of road . Transportation earnings per train mile .	\$1,652 51 1,256 20 80 17 107 78 \$11,438 10 \$11,438 10 \$2,000 88 428 64 14,346 51 531 36	11,438 10

OF THE

MASON & OCEANA RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed January 18, 1897.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. F. BUTTERS, Ludington, Mich.
Vice President, R. G. PETERS, Manistee, Mich.
Secretary, M. F. BUTTERS, Ludington, Mich.
Treasurer, HORACE BUTTERS, Ludington, Mich.
General Superintendent, M. McDERMOTT, Ludington, Mich.
Chief Engineer, OTTO WREGE, Ludington, Mich.

DIRECTORS.

M. F. BUTTERS, Ludington, Mich.

R. G. PETERS, Manistee, Mich.

J. H. LYONS, Ludington, Mich.

H. BUTTERS, Ludington, Mich. G. N. STRAY, Ludington, Mich.

Term expires January 9, 1898.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 9, 1886. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 5. Amount of full paid stock held in Michigan at same date: \$150,000.00. Date of annual meeting of stockholders: Second Monday in January. Fiscal year of company ends: December 31. General offices of the company are located at Ludington, Mich.

GENERAL EXHIBIT. Total earnings from operation			Credit. \$14,846 81
•	ANALYSIS OF CAPITAL STOCK.		
Par value of shares Number of shares issued	r articles of association 1,500	\$100 00 150,000 00	\$150,000 00
Total amount paid in, as per	books of the company		150,000 00
Paid in per mile of road owned b	y company		5,555 55
	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liquid	ated.	Amount.
For renewals	-		\$50,000 00
Total unfunded debt			\$50,000 00

RECAPITULATION.

Total unfunded debt		\$50,000 00
Total debt liabilities		\$50,000 00
Amount of debt liabilities per mile of road, 27 miles Stock and debt per mile of road, 27 miles	••••••	1,851 85 7,407 50
GENERAL BALANCE SHEET.—Dr.		
Construction account	\$145,000 00 50,000 00	\$195,000 00
Other assets: Materials and supplies	\$2,000 00	5,000 00
Total		\$200,000 00
1041		=====
GENERAL BALANCE SHEETCr.		
Capital stock		\$150,000 00 50,000 00
Total		\$200,000 00
10001		====
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built	by company	,.
Total expended for construction and equipment. Average cost per mile of road (not including sidings), 27 miles. Proportion of cost for Michigan.		\$195,000 00 7,222 22 7,222 22
PASSENGER BARNINGS.		
Main line and branches:	81 ATO 11	
Main line and branches: Local fares	\$1,652 51	
Main line and branches:	\$1,652 51 \$1,652 51	
Main line and branches: Local fares		
Main line and branches: Local fares	\$1,652 51 1,256 20	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails	\$1,652 51 1,256 20	\$2,90 8 71
Main line and branches: Local fares	\$1,652 51 1,256 20 \$0 17	\$2,906 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile. Per mile of road.	\$1,652 51 1,256 20 \$0 17	\$2,908 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile. Per mile of road. FREIGHT EARNINGS.	\$1,662 51 1,256 20 	\$2,906 71
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile. Per mile of road. FREIGHT EARNINGS. Main line and branches: Local traffic.	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10	\$2,908 71 11,438 10
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile. Per mile of road. FREIGHT EARNINGS. Main line and branches: Local traffic.	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10	
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile. Per mile of road. Main line and branches: Local traffic. Total traffic. Total freight department earnings. Per train mile.	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10 \$0 88 428 64	
Main line and branches: Local fares Total passenger fares Mails Total passenger department earnings Per train mile Per mile of road Main line and branches: Local traffic Total traffic Total freight department earnings Per train mile Per mile of road Total transportation earnings, entire lines	\$1,652 51 1,256 20 	11,438 10
Main line and branches: Local fares Total passenger fares Mails Total passenger department earnings Per train mile Per mile of road FREIGHT EARNINGS. Main line and branches: Local traffic Total traffic Total freight department earnings Per train mile Per mile of road Total transportation earnings, entire lines	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10 \$1,438 10 \$0 88 428 64	11,438 10
Main line and branches: Local fares Total passenger fares Mails Total passenger department earnings Per train mile Per mile of road Main line and branches: Local traffic Total traffic Total freight department earnings Per train mile Per mile of road Total transportation earnings, entire lines	\$1,652 51 1,256 20 80 17 107 73 \$11,438 10 \$11,438 10 \$1,438 10 \$1,438 10 \$1,438 10 \$1,438 10	11,438 10
Main line and branches: Local fares. Total passenger fares. Mails. Total passenger department earnings. Per train mile Per mile of road. Main line and branches: Local traffic. Total traffic. Total freight department earnings. Per train mile Per mile of road. Total transportation earnings, entire lines. Transportation earnings per mile of road. Transportation earnings per train mile Proportion of taxable earnings for Michigan. Total taxable earnings per mile of road in Michigan.	\$1,652 51 1,256 20 80 17 107 73 \$11,438 10 \$11,438 10 \$11,438 10 \$14,346 51 531 36 14,346 51 531 36	11,438 10 \$14,846 81

ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway	\$1,000 00 500 00 100 00 100 00
Total	\$1,700 00
MAINTENANCE OF EQUIPMENT.	
Repairs and renewals of locomotives	\$3,000 00 500 00
Repairs and renewals of work cars	100 00
Total	\$3,600 00
CONDUCTING TRANSPORTATION.	
Engine and roundhouse men. Fuel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives. Other supplies for locomotives. Train service. Train supplies and expenses Switchmen, flagmen and watchmen. Telegraph expenses Loes and damage. Stationery and printing. Other expenses.	\$2,000 00 2,000 00 200 00 100 00 3,820 00 200 00 50 00 50 00 20 00 20 00 2 89
Total	\$8,672 89
GENERAL EXPENSES.	
Taxes	\$878 92
Total	\$373 92
RECAPITULATION OF EXPENSES. Maintenance of way and structures	\$1,700 00 3,600 00 8,672 89 373 92
Total operating expenses and taxes	\$14,346 81
Operating expenses and taxes per mile of road	
Percentage of expenses to earnings. 100	
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: January 20, 1888.	
. MAIN LINE. Miles.	Milea.
In Michigan, from Buttersville to Steteon	27.00
Total length completed	27.00
BRANCHES.	
Total length of branches owned by company	10
Total length of branches owned by company in Michigan 10 Total length of road belonging to this company in Michigan 37	10
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	37
Gauge of track, 3 feet.	

Number of bridges and trestles in Michigan. Aggregate Number. length, feet. 3 450 3 450 Crossings.-Railroad and highway. Number of crossings of highways at grade in this State..... 11 6. 6 Number of stations on whole lines.
Same in Michigan Employés. Number of persons regularly employed on all roads operated by company, including officials Same in Michigan 80 Classify your employés as per following list: Number. Brakemen.... ConductorsEngineers Firemen.
Laborers. 18 Shopmen Yardmen ī REPAIRS AND RENEWALS. Fencing in Michigan. How many miles of fencing have you?.

Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed. 20 Road bed and track. Number of track sections in Michigan. 4 000 333 ROLLING STOCK. Present esti-Number. mated value. \$6,000 00 10,000 00 2 2,000 00 7 \$18,000 00 \$500 00 300 00 100 00 6,000 00 25,000 00 100 00 \$50,000 00 250

What patterns of power brakes have you in use, and number of lecomotives and cars with each? Ratchet, hand and chain wheel.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

No.

What pattern or patterns have you adopted for use? Link and pin.

How are your passenger cars heated. Coal heater.

MILEAGE TRAFFIC, ETC.

Train mileage.	In Michigan.
Miles run by passenger trains during the year	17,000
Total mileage of trains earning revenue	30,000
Passenger traffic.—In State of Michigan.	
Number of local passengers carried, earning revenue	Rate.
Total number of passengers carried, earning revenue 4,131	
Number of passengers carried one mile	\$0 40 03 03
Freight traffic.—In State of Michigan.	
Number of tons of local freight carried, earning revenue	. Rate.
Total tons of freight carried, earning revenue 22,876	
Total mileage of local freight13,000)
Total freight mileage or tons carried one mile. 297,386	3
Average ton haul for through freight	\$0 50 . \$0 50 . 02 . 02 . 02

FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

Company's material excluded.

Commodite.	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture : Grain Flour	200 40		200 40		
Other mill products Hay Potatoes	40 50 20		40 50 20		
Products of animals: Live stock Dressed meate Other packing house products Poultry, game and fish	1 20		10 20 20 10		
Products of forest: Lumber Logs Shingles	21,821		300 21,821 100		
Manufactures: Petroleum and other oils	15 5 10 5		5 15 5 10 5 5		
Merchandise	200		200		
Total tonnage	22,876		22,876		

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 20 miles.

STATE OF MICHIGAN, SS. COUNTY OF MASON,

M. F. Butters, president of the Mason & Oceana Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. of R. R.]

M. F. BUTTERS, President.

Subscribed and sworn to before me this 11th day of January, A. D. 1897.

[L. 8.]

GEO. N. STRAY, Notary Public, Mason Co., Mich.

OF THE

MICHIGAN AIR LINE RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed April 2, 1897.]

OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CHAS. M. HAYS, Montreal.
Secretary and Treasurer, CHAS. PERCY, Montreal.
Accountant, J. H. Muir, Detroit.
General Manager, CHAS. M. HAYS, Montreal.
Superintendent, A. B. ATWATER, Detroit.
Engineer, GEO. MASSON, Detroit.
General Trafic Manager, GEO. B. REEVE, Montreal.
General Passenger and Ticket Agent, W. E. DAVIS, Montreal.
Assistant Geveral Passenger and Ticket Agent, E. H. HUGHES, Chicago.
General Freight Agent, J. W. LOUD, Montreal.
First Assistant General Freight Agent, DAVID BROWN, Chicago.
Attorney, E. W. MEDDAUGH, Detroit.

DIRECTORS.

CHAS. M. HAYS, Montreal, Quebec.
JOHN BELL, Belleville, Ontario.
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
J. H. MUIR, Detroit, Mich.
Terms expire September, 1897.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 18, 1875.
Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$1,500.00.
Date of annual meeting of stockholders: Last Wednesday in September.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.

	Debit.	Credit.
Total earnings from operation		\$148,441 11 141,052 92
Net income		\$7,388 19
Interest on funded debt	\$75,488 34	
Balance for the year, deficit	\$68,045 15	
Items not included in above, as follows: Rents Contribution from Grand Trunk R'y towards interest liabilities, deficit	94 00 67,951 15	

47,468 68

ANALYSIS OF CAPITAL STOCK.

Par value of shares Number of shares issued	· · · · · · · · · · · · · · · · · · ·		3,000	\$100 00	
Amount paid in on common			-	300,000 00	
Total amount paid in, as per books of the company				•	
Paid in per mile of road owned by	company, 105.	50 mues		************	2,840 9
Al	NALYSIS OF I	DERT ACCOUNTS	,		
	Puni	DED DEBT.			
Class, character and date of i	Ratinte		Where	payable.	Amount outstanding
First mortagage, Jan., 1882	5	Jan., 1902	London,	Eng.	\$1,508,666 6
Total funded debt					\$1,508,666 67
	Unfundri	DEBT.			
For what incurred.	Is the sar	me to be funded or	how liquidat	ted?	Amount.
For current balances					\$47,463 6
	RECAP	ITULATION.			
Fotal funded debt					\$1,508,666 6' 47,463 6
Total debt liabilities					\$1,556,180 3
Amount of debt liabilities per mil Fotal amount of stock and debt Stock and debt per mile of road, 1	e of road, 103.6	0 miles			14,736 00 1,856,190 80 17,576 90
, G:	ENERAL BAL	ANCE SHEET.—I) R.		
Construction account Equipment account				}	\$1,818,097 &
Other assets: Debit balances from companies a	and individual	8			38,033 0
Total					\$1,856,130 3
GE	NERAL BALA	NCE SHEET.—CE	. .		
Capital stockFunded debt				800,000 00 508 666 67	

Profit and loss or income accounts.

COST OF BOAD AND EQUIPMENT.

PURCHASED BY PRESENT COMPANY.

When purchased: November, 1875. Original cost to present company, of road and equipment. Amount expended since purchase, account of construction. Amount expended since purchase, account of equipment.		\$300,000 00 1,517,097 83 1,000 00
Total cost to date of report		\$1,818,097 88
Average cost per mile of road (not including sidings), 105.60 miles		17,216 83 17,216 83
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MIC	CHIGAN.	
PASSENGER BARNINGS.		
Main line and branches: Local fares Through fares	\$30,435 89 58 02	
Total passenger fares	\$30,493 91	
Express and baggage Mails	2,499 96 8,838 00	
Total passenger department earnings		\$41,331 87
Per train mile	\$ 0 53 391 4 0	
FREIGHT BARNINGS.		
Main line and branches: Local traffic Through traffic	96,903 05 9,206 19	
Total freight department earnings		106,109 24
Per train mile Per mile of road	\$0 91 1,004 82	
Total transportation earnings, entire line		\$147,441 11
Transportation earnings per mile of road. Transportation earnings per train mile	1,396 22 75	
Miscellaneous receipts from operating account, other than for transportation, a From rent of tracks, yards and terminals	\$1,000 00	
Total		148,441 11
Total earnings from operation of road. Total earnings per mile of road. Total earnings per train mile. Income other than from earnings.		\$148,441 11 1,405 69 75 94 00
Total income from all sources		\$149,535 11
	•	
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Pensing of medway		\$23,739 77
Renewals of rails		1,871 86
Repairs and renewals of bridges and culverts		12,239 85
Renewals of rails. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures.		\$23,739 77 1,871 86 12,358 82 12,239 85 2,223 18 2,218 64
Total		\$54,652 07
MAINTENANCE OF EQUIPMENT.		
•		\$28 60
Repairs and renewals of locomotives		2,563 17 3,055 64
Superintendence. Repairs and renewals of locomotives Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars.		4,068 46
Repairs and renewals of work cars Repairs and renewals of shop machinery and tools.		
Stationery and printing		654 24 39 20
Other expenses		83
Total		\$11,127 64

CONDUCTING TRANSPORTATION.

CONDUCTING TRANSPORTATION.	
Sagine and roundhouse men. Finel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives Train service. Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service. Station supplies Car mleage—balance Loss and damage Injuries to persons Advertising Stationery and printing Other expenses Total	\$17,199 07 13,873 28 558 52 256 52 12,645 59 951 86 2,818 67 4.364 28 12,042 66 1,221 14 2,025 67 600 62 30 50 240 00 1,661 13 100 10
•	
GENERAL EXPENSES. Salaries of general officers Salaries of clerks and attendants Insurance Law expenses Taxes Total	\$120 00 280 00 437 70 400 00 8,509 67 \$4,747 87
RECAPITULATION OF EXPENSES. Per cent of expenses.	
Maintenance of way and structures38.76Maintenance of equipment7.88Conducting transportation50.00General expenses, including taxes3.36	\$54,652 07 11,127 64 70,525 84 4,747 37
Total operating expenses and taxes	\$141,052 92
	F1,835 73
	72.224
Total proportion of expenses and taxes for Michigan	72.224 \$141,052 92
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road	72.224 \$141,052 92 ===================================
Total proportion of expenses and taxes for Michigan	72.224 \$141,052 92
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road	72.224 \$141,052 92 ===================================
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Net earnings per mile of road	72.224 \$141,052 92 ===================================
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Net earnings per train mile. DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles.	72.224 \$141,052 92 \$1,405 69 75
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Net earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Net earnings per train mile. DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles.	72.224 \$141,052 92 \$1,405 69 75
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Net earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Not earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. 9.47 Aggregate length of tracks in Michigan belonging to this company, computed as single	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60
Percentage of expenses to earnings, 95%. Net earnings per mile of road. Net earnings per train mile. DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. Total length completed. Total length of road belonging to this company in Michigan 105.60 Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Net earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. Aggregate length of tracks in Michigan belonging to this company, computed as single track Gauge of track, 4 feet 8% inches.	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60
Percentage of expenses to earnings, 95%. Net earnings per mile of road Net earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. Aggregate length of tracks in Michigan belonging to this company, computed as single track Wumber of bridges and trestles in Michigan. Number. 1 Wooden bridges.	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60
Total proportion of expenses and taxes for Michigan Percentage of expenses to earnings, 95%. Not earnings per mile of road Not earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. 9.47 Aggregate length of tracks in Michigan belonging to this company, computed as single track Wooden bridges. Number of bridges and trestles in Michigan. Number. 1 Wooden bridges. 1 Iron bridges.	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60 105.60 Aggregate length, feet. 80 141
Percentage of expenses to earnings, 95%. Net earnings per mile of road Net earnings per train mile DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884. MAIN LINE. Miles. In Michigan, from Lenox to Jackson Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. Aggregate length of tracks in Michigan belonging to this company, computed as single track Wumber of bridges and trestles in Michigan. Number. 1 Wooden bridges.	72.224 \$141,052 92 \$1,405 69 75 Miles. 105.60 105.60 Aggregate ength, feet. 80

Crossings.—Railroad and highway.

What railroads cross your road at Detroit & Hay City R. R. near R Detroit, Grand Haven & Milwat Flint & Pere Marquette R. R. at Ann Arbor R. R. at Hamburg Detroit, Lensing & Northern R. Jackson, Lansing & Saginaw R.	ochester. ikee Railway at Pontiac. Wixom	at what locality?		
Jackson, Lansing & Saginaw R.	R. near Jackson.		•	
At what crossings are interlocking. At the crossing of the Bay Ci Jackson, Saginaw & Lansing Di	g and derailing switches ty Division of the Michi vision of the Michigan Co	in operation? gan ('entral R. R. entral R. R. at Jac	near Rocheste kson.	r; and the
What pattern or patterns have yo Union Switch & Signal Co.	u adopted?			
Number of crossings of highways Number of crossings of highways	at grade in this State at grade in this State at w	hich there are gat	es or flagmen	130
Number of crossings of highways Number of highway bridges, 18 fe	over or under railroad (o	over 2.)		2
Have safety guards been erected a				
Are your frogs and guard rails blo Yes.	cked as required by act 1	74, session laws of	18837	
How are they treated? Filled with wood planking.	Stations.			
Number of stations on whole line				20
	Employés.		5	
Number of persons regularly en	nployed on all roads op	erated by compa	ny, including	154
Classify your employés as per follo			:	Number.
Baggagemen Brakemen				13 13
Conductors				
Kngineere				
Engineers. Firemen				1
Firemen Laborers Shopmen				4
Firemen Laborers				4 4 70
Firemen Laborers Shopmen Yardmen				4 4 70
Firemen Laborers Shopmen Yardmen		VALS.		4 4 70
Firemen Laborers Shopmen Yardmen Others	REPAIRS AND RENEW	VALS.		4 70 1 3 47
Firemen Laborers Shopmen Yardmen Others	REPAIRS AND RENEW	₹ALS.		70 1 1 8 47
Firemen Laborers Shopmen Yardmen Others How many miles of fencing have y	Fencing in Michigoui. Road bed and traigen	₹ALB.		215
Firemen Laborers Shopmen Yardmen Others How many miles of fencing have y	Fencing in Michigoui. Road bed and traigen	₹ALB.		215
Firemen Laborers Shopmen Yardmen Others Number of track sections in Mich Average lengths of sections, miles Average number of men in each section whole	Fencing in Michig	VALS.		21: 32,683 32,684
Firemen Laborers Shopmen Yardmen Others Number of track sections in Mich Average lengths of sections, miles Average number of men in each section whole	REPAIRS AND RENEW Fencing in Michig rou? Road bed and tra igan ction gang line during the year n Michigan	VALS.		21: 32,683 32,684
Firemen Laborers Shopmen Yardmen Others Number of track sections in Mich Average lengths of sections, miles Average number of men in each se Number of new ties put in whole Number of new ties put in each se Average number of new ties per m	Fencing in Michigout. Road bed and traigan. ction gang the year ne Michigan. Bridges and culve	VALS.		21: 21: 32,68: 32,68: 31:
Firemen. Laborers. Shopmen. Yardmen. Others. How many miles of fencing have proceed to track sections in Michaelman and the sections of track sections in Michaelman and the sections of mentine act is sectionally to the section of	Fencing in Michig roul	VALS.		215 215 32,686 32,688 311
Firemen. Laborers. Shopmen. Yardmen. Others. How many miles of fencing have proceed to track sections in Michaelman and the sections of track sections in Michaelman and the sections of mentine act is sectionally to the section of	Fencing in Michig Fencing in Michig rou? Road bed and tra igan ction gang the year n Michigan Bridges and culve with earth during the year he year:	vals.		215 215 32,686 32,686 31,086
Firemen Laborers Rhopmen Yardmen Others Number of track sections in Mich Average lengths of sections, miles Average number of men in each se Number of new ties put in whole Number of new ties put in track i Average number of new ties per m Amount of trestle work replaced v Timber culverts replaced during t With iron pipe—number With sewer pipe—number With sewer pipe—number	REPAIRS AND RENEV Fencing in Michig rou? Road bed and tra igan ction gang the year n Michigan ile of road Bridges and culve with earth during the year he year:	vals.		215 215 32,686 32,686 31,086
Firemen Laborers Rhopmen Yardmen Others Number of track sections in Mich Average lengths of sections, miles Average number of men in each se Number of new ties put in whole Number of new ties put in track i Average number of new ties per m Amount of trestle work replaced v Timber culverts replaced during t With iron pipe—number With sewer pipe—number With sewer pipe—number	REPAIRS AND RENEV Fencing in Michig rou? Road bed and tra igan ction gang the year n Michigan ile of road Bridges and culve with earth during the year he year:	vals.		215 215 22,639 32,639 32,689 311
Firemen. Laborers. Shopmen. Yardmen. Others. Number of track sections in Mich Average lengths of sections, miles Average number of men in each se Number of new ties put in track i Average number of new ties per m Amount of trestle work replaced with the property of the ties of the ties per men the section of the ties of the ties per men track is a section of the ties per men ties per men track is a section of the ties per men ti	REPAIRS AND RENEW Fencing in Michig roul	vals. ck. rts. r, linear feet. Material.	Month built.	215 215 247 215 215 216 217 217 218 22,689 32,689 311 350 feet

RC	1.T C	ING	STO	CK.

ROLLING STOCK.		T
	Number.	Present esti- mated value.
Number of box freight care	1	8 \$7,200 00 5 1,500
Total	2	\$8,700 00
What patterns of power brakes have you in use, and number of locomotives and Westinghouse.	cars with	each?
Are your freight cars being equipped with automatic couplers as required by so of 1885, as amended by act No. 88, session laws of 1887? Yes.	ct No. 147	, session laws
What pattern or patterns have you adopted for use? Janney and Gould.		
How are your passenger cars heated? Baker heater and steam.		
MILEAGE, TRAFFIC, ETC.		

MILEAGE, TRAFFIC, ETC.			
Train mileage.		1:	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains	- -		56,886 52,939 85,473
Total mileage of trains earning revenue.			195,298
Passenger traffic.—Road all in State of 1	Michigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	80,415		
Total number of passengers carried, earning revenue	80,436		
Number of passengers carried one mile			\$0 87.911 02.606
Average receipts per mile for local passengers. Average receipts per mile for local passengers. Average receipts per passenger per mile for all passengers.			02.679 02.678
Freight traffic.—Road all in State of M	ichigan.		
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	13,875 200,531		
Total tons of freight carried, earning revenue	213,906		
Total mileage of through freight		1,417,750 10,685,277	•
Total freight mileage or tons carried one mile		12,103,027	-
Average ton haul for through freight		106.00 53.28	
Average ton haul for all freight		56.58	-
Average amount received for each ton haul. Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight			. 00.649 . 00.907
46			

FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

Company's material excluded.

0	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
roducts of agriculture:	10.000			
Grain	12,306	380 118	12,686 22,700	5.98 10.61
Flour Other mill products	22,582 1,746	24	1,770	10.01
Hay	5,512	33	5,615	2.62
Tobacco	73	19	92	.00
Cotton	14,535		14,535	6.80
Cotton Fruit and vegetables Potatoes	} 7,787	287	8,024	8.78
roducts of animals:				
Live stock	3,142 46	42	3,184	1.49
Dressed meats Other packing house products	32	4	46 36	05
Poultry, game and fish	36	· · · · · · · · · · · · · · · · · · ·	36	` .0
Wool Hides and leather	119		119	.06
Hides and leather	94	39	133	.06
roducts of mines: Anthracite coal	12,726	9 400	21.132	0.00
Bituminous coal	8,725	8,406 1,216	4,941	9.80 2.31
Coke	15	72	87	.0
Coke. Stone, sand and other like articles	429	890	1,319	.63
roducts of forest:	,			
Lumber Logs		1,536	33,375	15.60
Shiugles	5 51,000	1,550	30,010	13.00
anufactures:				
Petroleum and other oils	1,475 45	56 475	1,531 520	.77 .24
Iroo, pig and bloom	4.434	18	4,472	2.0
Iron and steel rails	24		24	2.0
Other castings and machinery	811	110	421	.20
Bar and sheet metal.	6	18	19	.01
Cement, brick and lime		373	2,982	1.39
Agricultural implements	1,036 826	589 172	1,645 998	.71 .44
Wines, liquors and beers	109	17	126	.00
Wines, liquors and beers. Household goods and furniture.	226	92	318	.10
Merchandise	9,768	25,853	35,621	16.69
iscellaneous: Other commodities not mentioned above	10,944	24,455	85,899	16.55
Total tonnage	143,617	65,289	213,906	100

ADDITIONAL QUESTIONS.

Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company.

Terms—\$2,500 per annum for a minimum weight of 3,000 lbs. daily, carried entire length of read; excess weight at same rate per 100 lbs. Freight received at depot.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 105.60 miles. Western Union Telegraph Co.

Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of Company.	General office.	Amount paid.
Armonr Car Line. California Fruit Express. Chicago Refrigerator Car Co. Continental Fruit Express. Commerce Despatch Line.	Chicago, Ill. Chicago, Ill. Chicago, Ill.	53 2 25 2 11
Cudahy Refrigerator Line	Hammond, Ind Chicago, Ill New York City, N. Y.	1 71 1 29 27 36
Chicago, Boston & Liverpool Refrigerator Line	Boston, Mass St. Louis, Mo.	49 36 1 04

STATE OF MICHIGAN, BS.

Almon B. Atwater, superintendent, and James H. Muir, accountant, of the Michigan Air Line Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. B.]

Signed,

A. B. ATWATER, JAS. H. MUIR,

Subscribed and sworn to before me this 2d day of April, A. D. 1897.

[L. S.]

L. F. LANG,

Notary Public, Wayne County, Michigan.

OF THE

MICHIGAN CENTRAL RAILROAD COMPANY,

For the year ending December 31, 1996.

[Filed March 31, 1897.]

OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

Chairman, C. VANDERBILT, New York City. President, H. B. LEDYARD, Detroit, Mich. Vice President, E. D. WORCESTER, New York City. Auditor, A. J. BURT, Detroit, Mich. Treasurer, D. A. WATERMAN, New York City. General Manager, H. B. LEDYARD, Detroit, Mich. General Superintendent, R. H. L'HOMMEDIEU, Detroit, Mich. Division Superintendents:

D. S. SUTHERLAND, Detroit, Mich.

O. F. JORDAN, Jackson, Micb.

W. J. MARTIN, Bay City, Mich.

J. H. SNYDER, Chicago, Ill.

J. B. MORFORD, St. Thomas, Ont.

Chief Engineer, A. TORREY, Detroit, Mich. Superintendent of Telegraph, E. E. TORREY, Detroit, Mich.

Local Treasurer, J. E. GRIFFITHS, Detroit, Mich.

General Passenger and Ticket Agent, O. W. RUGGLES, Chicago, Ill. General Freight Troffic Manager, B. B. MITCHELL, Detroit, Mich.

General Counsel, ASHLEY POND, Detroit, Mich.

General Attorney, HENRY RUSSEL, Detroit, Mich.

DIRECTORS.

C. VANDERBILT, New York City.

W. K. VANDERBILT, New York City.

F. W. VANDERBILT, New York City.

H. B. LEDYARD, Detroit, Mich.

E. D. WORCESTER, New York City.

S. F. BARGER, New York City. C. M. DEPEW, New York City.

ASHLEY POND, Detroit, Mich.

F. S. WINSTON, Chicago, Ill. Terms expire, May, 1897.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 28, 1846.

Number of stockholders at date of last election: 1,485.

Number of svockholders in Michigan at same date: 28.

Amount of full paid stock held in Michigan at same date: \$116,900.

Date of annual meeting of stockholders: Thursday following first Wednesday in May.

Fiscal year of company ends December 31.

General offices of the company are located at New York City, Grand Central Station; Detroit, Mich., foot of Third street; Chicago, Ill., Monadnock Building.

		EXHIBIT.	Debi	
Total earnings from operation Total expenses including taxes				
				_
Net income	l	\$660	0,000 00	. \$8,429,264 54
Net income				
Canada Southern proportion of net earning Balance applicable to dividends Dividends declared (4 per cent)				
Balance for the year (deficit)			\$11,294	\$7,152,979 66 . 39,685 84
Income from sundry investmentsBalance forward to next year	·····		7,181,870 2	<u> </u>
			\$7,192,665 0	0 \$7,192,665 00
ANALYS	IS OF CA	PITAL STOCK.		
Par value of shares		187,380	\$100 00 \$18,788,000 0	0
Total amount paid in, as per books of the	he compan	y		\$18,738,000 00
Paid in per mile of road owned by company	y, 270.07 mi	les		69,882 77
A N A T. VNT	2 OF DF	BT ACCOUNTS.		
ANADIGI	FUNDED 1			
				
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Bunds, Michigan Central Railroad, proper:			,	
Consolidated first mortgage, May 1, 1872 Consolidated first mortgage, Nov. 1. 1882	7≰ 5≴	May 1, 1902 May 1, 1902	New York City New York City	\$8,000,000 00 2,000,000 00
Total Michigan Central proper				\$10,000,000 00
Bonds issued by the Michigan Central Rail- road Company, accounts of respective leased lines:				
Grand River Valley R. R.: General first mortgage, Sept. 1, 1879 General first mortgage, March 1, 1886 Detroit & Bay City R. R.:	64 64	Sept. 1, 1909 Sept. 1, 1909	New York City New York City	500,000 00 1,000,000 00
Detroit & Bay City R. R.: General first mortgage, March 1, 1881	5≴	March 1, 1931	New York City	8,576,000 00
General first mortgage, March 1, 1881 Kalamazoo & South Haven R. R.: General first mortgage, Nov. 1, 1889	5%	Nov. 1, 1939:	New York City	700,000 00
Michigan Air Line R. R.: General first mortgage, Jan. 1, 1890		Jan. 1, 1940	_	i .
Total leased lines	1			
				
Total funded debt				\$18,376,000 00
Ţ	Infunded	DEBT.		
For what incurred.	he same to	be funded or how	r liquidated?	Amount.
For miscellaneous.				\$2,522,833 98

RECAPITULATION.

RECAPITULATION.		
Total funded debt, M. C. proper		\$10,000,000 00 2,522,833 9 8
Total debt liabilities, M. C. proper		
Amount of debt liabilities per mile of road, 270.07 miles Total amount of stock and debt, M. C. proper. Stock and debt per mile of road, 270.07 miles		46,368 85 81,260,833 98 115,750 86
GENERAL BALANCE SHEET,-Dr.		
Construction account, includes amount expended, account construction of lea Other investments: Advanced on account of land purchased in construction of Detroit Belt Line Sundry securities.	\$259,825 32 670,696 25	
Cash items: Cash Due from agents	\$402,397 85 202,632 13	930,521 57
Other assets: Materials and supplies. Debit balances from companies and individuals.	\$1,661,358 35 1,131,164 72	605,029 98 2,792,523 07
Total		
CONSTRUCTION ACCOUNT.		
Michigan Central Railroad Co. Michigan Air Line. Grand River Valley R. R. Co. Jackson, Lansing & Saginaw R. R. Co. Kalamazoo & South Haven R. Co. Detroit & Bay City R. R. Co. Saginaw Bay & Northwestern R. R. Co. Bay City & Battle Creek & Y Co. Battle Creek & Sturgis R'y Co.		3,744,297 78 176,739 00
Total	-	
GENERAL BALANCE SHEET.—Cr.		
Capital stock. Funded debt { Bonds, Michigan Central R. R. proper Bonds, issued account leased lines Unfunded debt: Interest unpaid	\$39,305 00	18,738,000 00 10,000,000 00 8,876,000 00
Dividends unpaid Notes payable Vouchers and accounts. Other liabilities (list as follows): Pay rolls Dividend No. 69, payable Feb. 1, 1897 Accrued interest of 1896 payable in 1897.	4,812 00 900,000 00 488,555 19	•
Profit and loss or income accounts		2,522,833 98 7,181,870 27
Total.	9	46,818,204 25
COST OF BOAD AND EQUIPMENT, PURCHASED BY PRESENT COMPANY. When purchased: September 24, 1846.		
Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 270.07 miles Proportion of cost for Michigan, 221 miles.	}	29,116,257 09
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
Leased or proprietary roads. Jackson, Lansing & Saginaw R. R.	n	tensions and ew sidings. \$113,818 52
Total charges to property account as above. Property sold and credited.	*	\$113,818 52 2,100 00
Net addition to property account		\$111,718 52

ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN. PASSENGEE EARNINGS.

	Local fares.	Through fares.	Total passen-Express and ger fares.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.	
Main line	\$746,187 22	\$491,270 85	\$491,270 85 \$1,237,458 07	\$195,001 21	\$130,707 67	\$130,707 67 \$1,563,166 95		\$7,078 15	IV.
Michigan Air Line R. R. Grand River Valley R. R. Jackson, Lansing & Saginaw R. R. Kalamazoo & South Haven R. R.	50,683 42 112,933 46 355,734 40 27,699 11	50 73 17,414 49 17,427 60 401 84	50,734 15 130,347 95 373,182 00 28,100 95	2,488 65 4,178 17 14,418 87 1,269 84	12,622 16 15,751 58 45,641 29 8,334 94	65,839 150,277 70 431,242 16 82,705 73		603 48 1,788 50 1,885 88 827 89	ICHIGA
Detroit & Bay City R. R. Toledo, Canada Southern & Detroit Ry Michigan Midland & Canada R. R., Canada Southern Bridge Co.,	173,020 91 50,877 38 4,721 08 1,266 20	4,600 39 74,932 16	177,621 80 125,509 54 4,721 06 1,286 20	11,805 70 6,967 01 122 94	28,348 08 18,016 96 144 90 103 86	215,275 08 150,793 51 5,788 82 1,870 06		1,388 87 3,180 05 394 83 874 83	N CE
Saginaw Bay & Northwestern R. R. Battle Ureek & Storgis R.y. Bay City & Battle Creek R'y. Detroit, Deiray & Dearborn R. R.	6,845 41 9,345 47 3,105 80 180 24		6,845 41 9,345 47 3,105 80 180 24	122 94	1,197 49 2,0% 07 860 98	8,042 90 11,556 48 3,966 78 180 24		24. 24. 38. 34. 34. 34. 34. 34. 34. 34. 34. 34. 34	NTRAL
Total passenger department earnings	81,542,620 10	\$606,098 06	\$606,098 06 \$2,148,718 16	\$235,870 33	\$255,617 88	\$255,617 88 \$2,640,206 37	\$1 01	\$2,323 00	KA.

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	Local traffic.	Through traffic.	Total traffic.	Total.	Per train mile.	Per mile of road.
Main line	\$8 686,088\$	\$1,779,084 20	880,889 88 81,779,084 20 82,060,024 08 \$2,060,024 08	\$2,660,024 08		\$12,036 31
Leased or proprietary roads: Michigan Air Line B. R. Michigan Air Line B. R. Grand River Valley R. B. Jackson, Lansing & Saginaw R. R. Kalamazoo & South Haven R. R.	135,358 67 67,115 47 665,300 97 23,086 28	97,403 07 60,232 53 64,033 97 4,561 16	232,761 74 127,408 00 729,334 94 27,647 42	222,761 74 127,408 00 729,34 94 27,647 42		2,183 47 1,520 56 2,258 70 699 93
Detroit & Bay City B. R. Toledo, Canada Southern & Detroit R'y Michigan Midtand & Canada K. R. Canada Southern Bridge Co.	228,815 50 77,735 20 1,680 11 279 48	212,915 95 505,320 67	439,731 45 583,055 87 1,680 11 279 48	439,731 45 583,055 87 1,680 11		2,836 98 12,334 58 114 45 76 36
Saginaw Bay & Northwestern R. R. Battle Creek & Sturgis R'y Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.	15,532 28 6,149 44 3,155 64	88.8 88.8 84.	16,190 30 6,154 79 3,232 07	16,190 30 6,154 79 3,232 07		195 04 182 10 179 56
Total freight department earnings. #2,103,148 90 #2,724,381 35 #4,827,500 25 #4,827,500 25	£2,103,148 90	\$2,724,351 35	\$4,827,500 25	\$4,827,500 25	\$1 52	84,247 50

ANALYSIS OF EARNINGS.—ENTIRE LINES.

PASSENGER EARNINGS.

4*	Local fares.	Through fares.	Total passenger fares.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.
Main line	\$968,978 51	\$631,631 06	\$1,590,609 57	\$250,651 56	\$168,000 89	12,000,271 02		\$7,078 15
Leased or proprietary roads: Michigan Air Line B. R. Joliet & Northern Indiana R. B. Graad River Valley R. R. Jackson, Lansing & Saginaw R. R. Kalamasoo & South Haven R. R.	58,479 37 18,748 06 112,988 46 355,754 40 27,699 11	72 88 101 06 17,414 46 17,427 90	53,562 20 18,844 11 190,347 95 373,182 00 28,100 96	2,621 61 696 42 4,178 17 14,418 87 1,269 84	18,822 1,582,83 1,751,83 1,641,88 1,88,89 1,88,89	69,497 11 16,472 79 150,277 70 481,242 16 82,705 73		908 48 3966 06 1,798 50 1,885 58
Detroit & Bay City R. R. Toledo, Canada Southern & Detroit R'y Ganada Southern R'y (in Canada) Miohigan Midhand & Janada R. R. Canada Southern Bridge Co.	173,020 91 631,417 44 631,367 07 4,721 06 1,286 20	4,600 39 93,898 68 864,750 98	177,621 80 156,816 12 996,118 00 4,721 08 1,286 20	11,305 70 8,694 08 115,556 25 122 94	22.22 24.22.23 24.22.23 24.22.23	215,275 08 187,967 64 1,209,921 12 5,788 82 1,870 06		2,88 8,12,88 8,12,19 8,12,19 8,13,19 8,19 8,19 8,19 8,19 8,19 8,19 8,19 8
Saginaw Bay & Northwestern R. R. Battl- Creek & Sturgis R'y Bay City & Battle Creek R'y Derwit, Deiray & Dearborn R. R.	6,845 41 9,845 47 8,105 80 180 24		6,945 41 9,845 47 8,105 50 180 24	122 St	1,197 49 2,068 07 860 98	8,042 90 11,556 48 8,966 78 180 24		2222 2222 2222
Total passenger department earnings	\$2,415,857 52	\$1,129,798 88	\$8,545,656 40	\$400,628 38	\$396,240 85	\$4,353,525 63	\$1 08	\$2,650 76

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	PERCEI BARRINGS.						
	Local Traffic.	Throngh traffic.	Total traffic.	Total.	Per train mile.	Per mile of road.	
Main line and branches	11,621,516 47	11,797,637 56	81,621,516 47 \$1,797,637 56 \$8,419,154 08 \$8,419,154 08	\$8,419,154 08		\$12,086 81	
Leased or proprietary roads: Michigan Air Line R. R. Joliot & Northern Indiana R. R. Grand River Valley B. R. Jackson, Lausing & Naginaw R. R. Kalamasoo & South Haven B. R.	145,288 76 81,775 40 78,247 05 697,499 41 23,382 12	100,451 82 88,139 89 49,160 93 31,885 53 4,255 80	245,680 58 1119,915 06 127,408 00 729,334 94 27,647 42	245,660 58 119,915 09 127,408 00 729,334 94 27,647 42		2,188 47 2,664 78 1,520 56 2,258 70 699 88	
Detroit & Bay City R. R. Toled ', 'anada Southern & Detroit R'y Canada Southern R y (in Canada) Michigan Midland & Canada R. R. Canada Southern Bridge Co.	356,247 66 590,061 95 1,776,633 53 1,690 11 279 48	83,488 79 136,691 85 1,772,656 17	439,731 45 728,753 80 3,549,259 70 1,680 11 279 48	439,731 45 726,783 80 3,549,279 70 1,680 11 279 48		2,836 58 12,834 58 9,836 28 114 45 76 86	
Saginaw Bay & Northwestorn R. R. Battle Creek & Stargis R.y. Ray City & Battle Creek R'y. Defroit, Delray & Dearborn R. R.	16,190 30 6,154 79 3,282 07		16,190 30 6,154 79 3,232 07	16,190 30 6,154 79 3,282 07		195 04 182 10 179 56	
Total freight department earnings	\$5,898,149 10	14,014,312 66	85,898,149 10 14,014,312 66 89,412,461 76 89,412,461 76	\$9,412,461 76	\$1.64	55 ,731 02	

Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile		\$8,881 78 1 80	18,765,937 89
Miscellaneous receipts from operating account. other than for transactions:	-		EE 007 OF
From other sources. Distribution of miscellaneous earnings between main line and les	sed or proprie Total mis-	tary roads: roportion	
Company: Michigan Central B. R. Michigan Air Line R. B. Jolist & Vorthern Indiana R. R.	\$39,944 79 140 89 121 93	\$31,076 13 183 00	
Grand River Vatley R. R. Jackson, Lansing & Saginaw R. R. Kalamaz-10 & South Haven R. R. Detroit & Bay City R. R. Tolado, Canada Southers & Detroit R.	288 45 6,793 11 82 57 1,233 44	238 45 6,793 11 82 57 1,288 44	
Company: Michigan Central R. R. Michigan Air Line R. R. Jolint & Vorthern Indiana R. R. Grand River Vatley R. R. Jackson, Lansing & Saginaw R. R. Kalamszoo & South Haven R. R. Detroit & Bay City R. R. Toledo, Canada Southern & Detroit R'y. Michigan Midland & Canada R. R. Canada Southern Bridge Co Saginaw Bay & Northwestern R. R. Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y. Canada Southern R'y (in Canada) Total earnings from operation of road	1 00 802 48 17 49 18 00	1 00 302 43 17 49 13 00	
Bay City & Battle Creek R'y Canada Southern R'y (in Canada) Total earnings from operation of road	5,964 78	1 00	10 001 414 44
Total earnings per mile of road		\$8,415 65 1 32	10,021,014 44
Proportion of taxable earnings for Michigan: Michigan Central R. R. Michigan Air Line R. R. Grand River Valley R. B. Jackson, Lansing & Seginaw R. R. Lansing & Seginaw R. R. Seginaw R. R. Detroit & Bay City R. R. Toledo, Canada Southern & Detroit R. R. Michigan Midland & Canada R. B. Canada Southern Bridge Co. Saginaw Bay & Northwestern R. R. Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.		4,254,287 16 298,734 70 277,924 15 1,167,372 21 60,385 72 656,239 97 734,507 78 7,469 98 1,951 97 24,250 69 17,724 27 7,199 82 180 24	
Total proportion of taxable earnings in Michigan	*	7,508,208 64	
Total proportion of taxable earnings in Michigan	*	7,508,208 64	39,685 84
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings Total income from all sources	*	7,508,208 64 6,606 14	
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings	*	7,508,208 64 6,608 14	13,861,299 78
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings Total income from all sources		7,508,208 64 6,608 14	13,861,299 78 7,508,208 64
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings Total income from all sources Proportion of income for Michigan ANALYSIS OF EXPENSES MAINTENANCE OF WAY AND STEUC		7,508,208 64 6,606 14 	7,508,208 64
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings Total income from all sources Proportion of income for Michigan ANALYSIS OF EXPENSES MAINTENANCE OF WAY AND STRUC Repairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of buildings and fixtures Stationery and printing Other expenses	TURES.	7,508,208 64	31,048,784 30 92,688 85 202,623 92 147,461 78 165,572 41 15,854 64 19,122 81 2,348 36 19,429 00
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings Total income from all sources Proportion of income for Michigan ANALYSIS OF EXPENSES MAINTENANCE OF WAY AND STRUCT Repairs of roadway Renewals of rails Repears and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle graphirs and renewals of tooks and wharves Repairs and renewals of cocks and wharves Repairs and renewals of cocks and wharves Repairs and renewals of clearaph	TURES.	7,508,208 64	31,048,784 30 92,688 85 202,623 92 147,461 78 165,572 41 15,854 64 19,122 81 2,348 36 19,429 00
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan	TURES.	7,508,208 64	31,048,784 30 92,688 85 202,623 92 147,461 78 165,572 41 15,854 64 19,122 81 2,348 36 19,429 00
Total proportion of taxable earnings in Michigan Total taxable earnings per mile of road in Michigan Income other than from earnings Total income from all sources Proportion of income for Michigan ANALYSIS OF EXPENSES MAINTENANCE OF WAY AND STRUCT Repairs of roadway Renewals of rails Renewals of rails Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle graphing and renewals of tules Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses Total	TURES.	7,508,208 64	31,048,784 30 92,688 85 202,628 85 202,628 85 202,628 85 202,628 85 202,628 642 147,461 78 165,524 64 19,122 81 19,122 81 19,429 00 \$1,922,546 96 \$688,719 82 688,719 82 688,719 82 82,423 01 26,913 71 2,800 22 43,765 72

CONDUCTING TRANSPORTATION.

Nunerintendence		\$149,442 18 948,522 38
Parine and normalhouse man		010,110 10
The star roundhouse men		840,024 00
Fuel for locomotives		975,391 25
Water supply for locomotives		49,015 61
Qil, tallow and waste for locomotives		84,587 52
Other supplies for locomotives.		4,717 68
Superintendence. Engine and roundhouse men. Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives. Other supplies for locomotives. Train service.		49,015 61 84,587 52 4,717 68 690,566 72
Train service. Train supplies and expenses. Switchmen, flagmen and watchmen Telegraph expenses.		219, 898, 85
Switchmen flormen and wetchmen		448 057 18
Talamenh avances		190,001 10
Challes and the complete the co		000,900 90
Station service		219,898 35 448,957 16 226,458 43 855,742 77
Station supplies Car mileage—balance Loss and damage Injuries to persons		77,125 44
Car mileage—balance		422,628 39
Loss and damage		422,628 39 46,048 25 70,844 09
Injuries to persons		70,844 09
Clearing wrecks		8,225 88
Operating marine equipment		72,093 50
Advertising	•••••	148,648 52
Ontaida aconcias		190, 954, 40
Pant of haldings and other property		180,854 40 560,190 50
Set of buildings and other property		300,180 30
Stationery and printing		75,118 02
Clearing wrecks Operating marine equipment. Advertising. Outside agencies Rent of buildings and other property Stationery and printing. Other expenses		27,401 24
Total		60 901 /79 79
10001		40,401,812 10
•		
GENERAL EXPENSES.		
GENERAL EXTENSES.		
Salaries of general officers. Salaries of cierks and attendants General office expenses and supplies Linsurance Law expenses. Stationery and printing (general offices) Other expenses Taxes		\$72,400 00 96,540 02
Salaries of clerks and attendants		98.540.02
General office expenses and symplice		K RSI NO
There is a contract of the same supplies and		5,651 09 11,104 11
Insurance		11,106 11
Law expenses.		58,422 91 6,870 95
Stationery and printing (general omces)		0,870 %
Other expenses		74,003 59
Taxes		326,452 99
Total		\$645,945 66
~~~~		00101010 00
PROADITILATION OF RYDRINGES DA	r cent of	
	r cent of	
	penses.	
Maintanance of way and attractures	penses.	
Maintanance of way and attractures	penses.	
Maintanance of way and attractures	penses.	
Maintanance of way and attractures	penses.	
ех	penses.	\$1,922,546 96 1,542,384 5\ 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and attractures	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22 100.00	\$1,922,546 96 1,542,384 53 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Monducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Monducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,548 96 1,542,384 51 6,281,472 73 645,945 66 \$10,392,349 90
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment.  Monducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 98,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 86,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 86,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 86,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 86,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 86,327 65	\$1,922,546 96 1,542,384 55 6,281,472 73 645,945 66 \$10,892,349 90  \$3,323,749 39 282,353 54 270,201 10 1,184,727 38 47,804 81 505,088 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit, Mich., to Chicago, Ill., May, 1852.

MAIN LINE.		
In Michigan, from Detroit, Mich. to State line In Indiana, from Michigan State line to Illinois State line In Illinois, from Indiana State line to Kensington	Miles. 221.00 43.00 6.07	Miles.
Total length completed		270.07
Length of double track on main line Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company, computed track	221.00 190.59 as single	138.40 270.07
Gauge of track, 4 feet 8½ inches.		
Proprietary or leased roads operated by this company.		
Name, description and length of each:	Fal miles i	in Michigan.
Chicago & Kensington	14.00	
Michigan Air Line R. R. Joliet & Northern Indiana R. R.	115.16 45.00	109.10
Jackson, Lansing & Saginaw R. R.  Jackson, Lansing & Saginaw R. R.	83.79	88.79
Jackson, Lansing & Saginaw R. R. Kalamazoo & South Haven R. R.	322.90 89.50	322.90 39.50
Jackson, Lansing & Sagnaw R. R. Kalamasoo & South Haven R. R. Detroit & Bay City R. R. Michigan Midland & Cauada R. R. Cauada Santham Bridge Co	155.00	155.00
Michigan Midland & Canada R. R. Canada Sonthern Bridge Co.	14.68 3.66	14.68 3.66
Canada Sonthern Bridge Co. Saginaw Bay & Northwestern R. R Battle Creek & Surgis R'y. Bay City & Battle Creek R'y. Detroit, Delray & Dearborn R. R.	83.01	83.01
Battle Creek & Sturgis R'y.	33.80 18.00	38.80 18.00
Toledo, Canada Southern & Detroit R'y	58. <b>9</b> 2	47.27
Detroit, Delray & Dearborn B. R. Canada Southern B'y (in Canada)	4.84 380.04	4.84
Canada Soumern is y (in Canada)		
Total	1,372.30	915.55
Number of bridges and trestles in Michigan.		Aggregate length, feet.
Wooden bridges	. 7 2 <b>6</b> 0	372
Stone bridges { boxes arches Lron bridges }	200 51	1,289 655
Iron bridges	. 60	9,468
Combination bridges Wooden trestles	600	900 30,066
Total	979	42,700
Draw bridges in Michigan.		
How many on your line.		7
Where located, when built, and length of draw span?		Feet.
a St Charles over Red River rebuilt 1800		8414
a, Paines, over Tittabawassee River, rebuilt 1888		991/4
c. Bay City, over Saginaw River, rebuilt 1881 and 1895		131 189
a, Paines, over Tittabawassee River, rebuilt 1888 b, South of West Bay City, over Saginaw River, rebuilt 1889 c, Bay City, over Saginaw River, rebuilt 1881 and 1895 c, East Saginaw, over Saginaw River, rebuilt 1884 and 1893		190
c, South of Woodmere, over Rouge River, rebuilt 1887.		340⅓ 160
Character of structure: a, Iron plate girder on stone piers.		
<ul> <li>b. Wooden Howe truss on wooden piers.</li> <li>c. Iron truss on stone piers.</li> </ul>		
Material of which constructed: a, Iron and stone. b, Wood.		
c, Iron and stone.		
Height above water, and depth of water under bridge: From 15 to 30 feet.		

How swung, by engine or hand power?

1 by electric motor, 1 by steam, all others by hand.

```
Approaches straight or curved?
Straight.
Do you require all trains to come to full stop before crossing a draw, and how are they signaled? Yes. By bridge tender.
Crossings.—Ratiroad and Mighway.

What railroads cross your road at grade in this State, and at what locality?
Lake Shore & Michigan Southern dailroad, at West Detroit, Albion, Kalamasoo, Jackson, Homer, Three Rivers, south end of Junction yard, Detroit, Woodward avenue, Detroit, and Eaton Rapids. Wabash Railroad, at West Detroit and Delray.
Flint & Fere Marquette Railroad, at Wayne Junction, East Saginaw, Otter Lake, Bay City, North Saginaw and South Saginaw.

Detroit, Monroe & Toledo Railroad, at Detroit.
Grand Trunk Railway, at Detroit (Woodward avenue.)
Detroit, Grand Haven & Miswaukee Railroad, at Milwaukee Junction and Owosso.
Pontiac, Oxford & Port Austin Railroad, at Oxford.
Michigan Air Line Railroad, at Rochester and Jackson.
Chicago & Grand Trunk Railway, at Lapser, Nichols, Charlotte, Lausing, Cassopolis and Jackson.
Port Huron & Northwestern Railroad, at Vassar and near East Saginaw.
Saginaw, Tuscola & Huron Bailroad, at Kalamasoo and Wasspi.
Saginaw Bay & Northwestern Railroad, at Kalamasoo and Wasspi.
Saginaw Bay & Northwestern Railroad at Pincouning.
Chicago & West Michigan Railroad, at Lausing and North Lansing.
Toledo, Ann Arbor & North Michigan Railroad at Owosso Junction and East Saginaw.
Cincinnati, Jackson & Mackinaw Railroad, at Hastings.
Toledo, Saginaw & Muskegon Railroad, at Hastings.
Toledo, Saginaw & Muskegon Railroad, at Orth Saginaw and West Bay City.
Midland & Hubbard Railroad, one-half mi'e east of Midland.
R. C. Peters R. R., near Grayling (Main Line & Twin Lakes Branch.)
Detroit & Mackinaw Railroad, at Pinconning.

What railroads cross your road either over or under your grade in this State. and where?
                                                                                                                      Crossings. - Railroad and highway.
  What railroads cross your road either over or under your grade in this State, and where?
       Pat fairbads cross your road situer over or under your grade in this count, and Canadian Over:

Detroit, Lansing & Northern R. R., Flint & Pere Marquette R. R., Wabash R. R., and Canadian Pacific R. R. at Woodbridge street, Detroit.

Toledo. Ann Arbor & North Michigan R. R. at Ann Arbor.
Filnt & Pere Marquette R. R., at six miles west of Detroit.
Cincinnati, Wabash & Michigan R. R., at New Suffalo.

Cincinnati, Jackson & Mackinaw Railroad, at 2 miles east of Augusta.
              Cincinnati, Wabash & Michigan R. R., at Niles and two miles south of Niles.
Indiana & Lake Michigan R. R., at Galien.
At what crossings are interlocking and derailing switches in operation?

Lake Shore & Michigan Southern Railroad, at West Detroit, Woodward avenue, Detroit, Albion, Woodwere, Homer and Kalamazoo.

Flint & Pere Marquette Railroad, at Wayne Junction, one mile south of Saginaw, one mile north of Saginaw and Bay City.

Grand Rapids & Indiana Railroad at Wayne, Homer and Kalamazoo.

Chicago & Grand Trunk R R., at Lapeer, Cassopolis, Nichole, Lansing and Jackson.

Cincinnati, Jackson & Mackinaw Railroad, at C., J. & M. crossings.

Chicago, Kalamazoo & Saginaw Railroad, at Hastings.

Detroit, Lansing & Northern Railroad, at Grand Rapids.

Cincinnati, Saginaw & Mackinaw Railroad, north and south of West Bay City, and north of Saginaw.

Detroit, Grand Haven & Milwaukee Railroad, at Milwaukee Junction.

Wabash R R., at West De roit and Woodmere.

Grand Trunk Ry, at Milwaukee Junction and Woodward avenue, Detroit.

Chicago & West Michigan R. R., at Grand Junction.

Michigan Air Line R. R., at Rochester Junction.

Pontiac, Oxford & Port Austin R. R., at Oxford.

R. G. Peters R. R., north of Grayling.
   What pattern or patterns have you adopted?
Union Switch and Signal Co. (Swissvale, Pa.), pattern.
  1.841
  flagmen

Number of crossings at which there are electric or automatic signals
   What pattern or patterns in use?
Gate Co., Pennsylvania Steel Co., and Saginaw Gate Co.
Electric or automatic signals.—Pennsylvania Steel Co., Ross & Holden, Oriel Cross Alarm Co., and Hall Signal Co.
  Have safety guards been erected at overhead obstructions?
  Are your frogs and guard rails blocked as required by act 174, session laws of 1883. Yes.
   How are they treated?
Filled with wood, spiked to ties.
```

### Stations.

Number of stations on whole lines			•••••	506 825
			;	<u></u>
•	Employés.			
Number of persons regularly employ officials	ed on all roads operated			9,496 6,204
Classify your employés as per followin Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others				Number. 77 570 307 494 516 2,318 882 696 8,635
	REPAIRS AND RENEWALS.			
	Fencing in Michigan.			
How many miles of fencing have you?				2,0021/4
Give the number of miles required to c and the counties in which needed: Gladwin county Bay county Crawford county Otsego county Montmorency county				18¼ 8¼ 48 2 8
Total miles required				70
			:	
Number of track sections in Michigan Average lengths of sections, miles	n gang during the year shigan of road		4.66	258 646,085 451,042 400
	Bridges and culverts.			
Amount of treetle work replaced with	earth during the year (lin	ear feet)		835
Timber culverts replaced during the year With iron pipe	DAT:	· · · · · · · · · · · · · · · · · · ·		Number. 64 20
New bridges built during the year.—N	umber 5.		•	
Location.	Kind.	Material.	Month built.	Feet in length.
Bouth of Leonidas.  East of Adair.  Mason  Battle Creek  Battle Creek	Deck plate girder	Stone	February August September. July to Oct. May & June.	240 ft. 66 ft. 20 ft. 1,070 ft. 585 ft.

### ROLLING STOCK.

	Number.	Present esti- mated value.
Number of locomotives more than 30 tons weight, exclusive of tender Number of locomotives of 20 to 30 tons weight, exclusive of tender	409 52	\$2,872,187 00 172,500 00
Total	461	\$3,044,687 00
Number of passenger cars—12-wheel, including official cars Number of passenger cars—8 wheel, including official cars Number of express and baggage cars Number of box freight cars Number of stock cars Number of platform cars Number of ore cars Number of conductors' way cars	17 245 110 8,295 1,039 3,108 334 258	\$181,000 00 813,200 00 234,400 00 2,806,775 00 803,900 00 701,025 00 83,500 00 113,850 00
Other cars as follows:       1         School car (air brakes)       34         Boarding       34         Hand derrick       4         Steam derrick       2         Pile driver       2         Steam shovel       6         Snowplow       13         Rail saw       1         Tool cars       88         Stone cars       2		
Oil tanks	191	
Total	18,587	\$5,875,850 00
Number of looomotives equipped with power brakes	396 372 5,025	
What patterns of power brakes have you in use, and number of locomotives a American steam and Westinghouse.  Cars—Westinghouse, 5,897; locomotives—Westinghouse, 348; American steam		h each?
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Yes.	et No. 147,	session laws
What pattern or patterns have you adopted for use? Gould.		
How are your passenger cars heated?  Hot water and steam.		
MILEAGE, TRAFFIC, ETC.		

Train mileage.		Entire lines, I	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains			2,610,057 8,172,995 855,818
Total mileage of trains earning revenue			6,138,865
Passenger traffic.—Entire line			
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	Number. 220,467 2,343,592	1	Rate.
Total number of passengers carried, earning revenue	2,564,059	,	
Number of passengers carried one mile		. 60.96	\$1 38 02.0295 02.4008 02.2682

### Passenger traffic.—In State of Michigan.

Number of through passengers carried, earning revenue 220 1,880	,474 ,400
Total number of passengers carried, earning revenue 2,100	,874
Number of passengers carried one mile	48.10 \$1.02 01.584
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers	02.782
Freight traffic.—Entire lines.	
	ons. Miles. Rate.
Number of tons of through freight carried, earning revenue	,439 ,881
Total tons of freight carried earning revenue	,270
Total mileage of through freight	
Total freight mileage or tons carried one mile	1,480,251,521
Average ton haul for through freight  Average ton haul for local freight.  Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile for all freight	129 199 \$1 29 00.515 00.768
Freight traffic.—In State of Michigan.	
Number of tons of through freight carried, earning revenue 2,857 Number of tons of local freight carried, earning revenue 2,882	,894 ,249
Total tons of freight carried, earning revenue	,648
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight. Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight	247,517,340 669,220,380 148 86 117 90 84 00.646
Average receipts ton per mile for local freight.  Average receipts ton per mile, for all freight	00.850

## MICHIGAN RAILROAD RETURNS, 1896.

### FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

### Company's material excluded.

g	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
roducts of agriculture :	200 044				
Grain	289,914 108,898	877,622 97,089	667,596 205,987	9.17 2.81	
Flour Other mill products	68,648	44,409	108.057	1.4	
Hay	72,044	50,409	122,458	1.68	
Tobacco.	886	7,487	8,823	0.11	
Cotton Fruit and vaccate blee	85,811	51,944 75,254	51,944 160,565	0.70 2.20	
Fruit and vegetables Potatoes and other agricultural products	66,712	42,155	108,867	1.50	
roducts of animals:					
Live stock	67,010 120,585	138,658	200,668	Z. (C	
Dressed meats Other packing house products Poultry, game and flah Wooi Hides and leather	95, 290	111,986 97,108	282,571 192,407	8.20 2.64	
Poultry, game and fish	95,299 4,189	4.820	8.950	0.12	
Wool	2,243	4,466	6,709	0.09	
1	9,420	13,521	22,941	0.82	
roducts of mines: Anthracite coal		458,720	458,720	6.80	
Bituminous coal Coke and charcoal		458,720 717,290	458,720 717,290	9.85	
Coke and charcoal	12,589	19.0%	81.678	0.44	
Ore«	288,871	9,015 77,489	9,015 310,880	0.12 4.27	
Salt	58,787	18,177	71,914	0.96	
roducts of forest:					
Lumber Logs and other forest products	384,181 699,865	185,479 136,187	569,660 836,052	7.88 11.49	
	089,000	100,101	000,002	11.98	
anufactures : Petroleum and other oils	100 000	110 701	007 004	9.10	
Sugar	109,090 11,185	118,781 70,026	237,821 81,211	8.12 1.12	
Iron, nig and bloom	43,871	68,664	110.985	1.51	
Iron and steel rails	5,604	8,142	18,746	0.19	
Other castings and machinery Bar and sheet metal	25,924 30,258	24,508 43,085	50,488 78,848	0.66 1.01	
Coment brick and lime	90 910	47.548	86,762	1.0	
Agricultural implements	10,606	10.482	21.038	0.20	
Agricultural implements Wagons, carriages, tools, and other m'f'rs	498,597	989 921	750,881	10.80	
Wines, liquors and beers Household goods and furniture	12,653 16,801	16,885 13,267	29,488 29,568	0.41 0.41	
iscellaneous: Other commodities not mentioned above	320,789	377,080	697,869	9.56	
Total tonnage	8,492,349	3,783,921	7,276,270	100	

### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

### Company's material excluded.

a	Freight	Freight received from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
roducts of agriculture: Grain	0.07 1.07	900 877	747 949	9.54	
Plone	245,185 105,504	802,657 69,872	547,842 175,876	8.00	
Flour Other mill products	48,020	42,271	90,291	1.57	
Нау	44,012	40.505	84.517	1.47	
Tobacco	'Ana	7,367	8,175	0.14	
Cotton		49,094	49,094	0.8	
Cotton Fruit and vegetables Potatoes and other agricultural products	73,686 54,268	70,455 48,865	144,141 98,138	2.51 1.7	
roducts of animals:			400 000		
Live stock	66,899	101,691	168,590	2.9	
Dressed meats	104,922 78,509	79,228 91,988	184,150 170,497	3.2 2.9	
Other packing house products	8,373	4,274	7.647	0.1	
Wool	1,909	4,118	6,027	0.1	
Wool Hides and leather	7,841	11,400	19,241	0.8	
roducts of mines:		800,968	300,968	. 5.2	
Rituminone coel		688,912	688,912	11.9	
Bituminous coal Coke and charcoal	8,454	17.547	26,001	0.4	
Ores Stone, sand and other like articles		8,885	8,835	0.1	
Stone, sand and other like articles	185,849	47,608	188,457	8.2	
Salt	51,601	12,565	64,166	1.1	
roducts of forest:	000 000	400 000	أ		
Lumber	366,593 617,178	160,710 119,482	527,806	9.19 12.8	
-	011,110	119,402	736,660	12.5	
anufactures:	00 404	114 108	107 901	0.4	
Petroleum and other oils	88,636 10,935	114,165 50,268	197,801 61,203	8. <u>4</u> 1.0	
Iron, nig and bloom	89.188	65,240	101,878	1.8	
Iron and steel rails	4.297	7.622	11.919	0.2	
Other castings and machinery	24.240	1 20,598	44,833	0.7	
Bar and sheet metal	16,575	36,872	52,947 78,297	0.9	
Cement, brick, and lime	85,724 9,712	87,578	78,297	1.2	
Agricultural implements Wagons, carriages, tools, and other manufac-	9,71Z	9,688	19,850	0.8	
<b>FUITOS</b>	061.006	288,775	560,667	9.7	
Wines, liquors, and beers	7,740	13,684	21,424	0.8	
Household goods and furniture	18,751	10,610	24,361	0.4	
liscellaneous: Other commodities not mentioned above	59,535	222,908	282,443	4.9	
Total tonnage	2.641.783	3,097,860	5,789,648	100	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company do a business over the lines of the Michigan Central Bailroad Company, for which the following rates of compensation are paid, with the guarantee that said compensation will amount to not less than \$22,400 per month.

On all tonnage carried.	Pay on local merchandise.  Per cwt.	Pay on through or foreign merchandise. Per cwt.	Pay on all produce
1 to 10 miles	\$0.15	<b>\$</b> 0 10	\$0 10
11 to 32 "	15	15	15
18 to 50 "	20	15	15 20 25
51 to 76 "	25 30 85 45	20	20
( to 100	30	25	, za
JI to 120 "	85	30	30
1 W 140	45	35	35
16 to 175 "	50	40 50	40
66 to 275 "	J 20	, 30 60	50 50
16 to 300 "	1 OU	65	50
01 to 510 "	60 60 65 75	75	50
1 to 650 "	ไ 8้ง	80	50

#### Telegraph.

Number of miles of	telegraph on	vour road, and	to whom does	it halong?

	M1166.
Michigan Central R. B.	1.284.10
Michigan Central R. R. M. C. R. R. & Western Union Telegraph Co.	1,284.10 279.00
Western Union Telegraph Co	5,497. <b>54</b>
Canada Southern R'y	1,168.71
Canada Southern R'y Great Northwestern Telegraph Co.	852.60
	8.578.95

#### TRANSPORTATION COMPANIES.

### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms! If rented by you, or allowed milesge between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Ill.

### ADDITIONAL QUESTIONS.

### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Cannot furnish this information; the amount, however, is small.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

January 3, Jos. Causley, switchman, Bay City. Stepped in front of engine; Carelessness. January 28, Albert Doane, trespasser, Gaylord. Crossing track; trespasser. February 2, unknown man, trespasser, Niles. Walking on track. February 10, Geo. Service, trespasser, Niles. Walking on track. March 9, Steve Lillis, brakeman, Detroit. Lumber falling on him; accidental.

April 20, Frank Foster, conductor, Ypsilanti. Fell under oars; lack caution. April 28. L. P. Oldfield, passenger, Denmark Junction. Fell off train; lack caution. May 4, John Tobin, switchman, B-y City. Jumped off train; lack caution. May 6, L. J. Pratt, brakeman, Eddys. Fell off train; lack caution. May 9, Fred Plander, trespasser, Battle Creek. Crawled under moving train. June 1, Frank Mitchell, trespasser, Lansing. Walking on track. June 27, Frank Howard, trespasser, Ypsilanti. Stealing ride. July 1, W. Hathway, brakeman, Kalamazoo. Fell under train; lack caution. July 6, unknown man, trespasser. Ann Arbor. Struck by train. July 25, Chas. Wersing, trespasser, Reese Struck by train. July 30, unknown boy, trespasser, Jackson Junction. Struck by train. August 20. A. Tenbrook, trespasser, Marshall. Driving on track. August 22, unknown man, trespasser, Glesburg. Struck by train. September 1, unknown man, trespasser, Vandalia. Found dead on track. September 12, unknown man, trespasser, Vassar. Stalling ride. September 18, unknown man, trespasser, Vandalia. Found dead on track. September 19, D. Pankey (boy), trespasser, Ann Arbor. Jumping on train. December 6, unknown man, trespasser, Town Line. Walking on track. December 23, Jos. Broughton, Jackson. Driving across track; carelessness.

#### INJURED.

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December 23, Jos. Broughton, Jackson. Driving across track; careleseness.

INJURED.

INJURED.

January 23, U. E. Johnson, brakeman, Rives Junction. Coupling; careleseness.

February 15, Fred Martin, Saginaw. Driving across track; accidental.

February 15, Lonis Martin, Saginaw. Driving across track; accidental.

February 15, Gover Bordeman, Saginaw. Driving across track; accidental.

February 15, Gover Bordeman, Saginaw. Driving across track; accidental.

February 15, Gover Bordeman, Saginaw. Driving across track; accidental.

February 15, Bover, Brakeman, Briver Junction. Fell off car; lack caution.

March 17, E. Boviel, brakeman, Briver Junction. Fell off car; lack caution.

March 18, J. G. Martin, switchman, Junction Yards. Coupling; carelessness.

March 18, J. G. Martin, switchman, Junction Yards. Coupling; carelessness.

April 13, Moss Strong, trespasser, Rochster. Stealing ride.

April 16, Moss Strong, trespasser, Rochster. Stealing ride.

April 17, Moss Browle, brakeman, Betroit. Attempted 1-1 map on track.

July 15, Thomas Bowles, brakeman, Destroit. Attempted 1-1 map on track.

July 15, Thomas Bowles, brakeman, Destroit. Coupling; carelessness.

Angust 5, Haac Beat, switchman, Detroit. Fell off car; lack caution.

July 31, Fred Kittandor, brakeman, Detroit. Fell off car; lack caution.

August 10, C. Sullivan, section man, Mackinaw. Fell off train; lack caution.

August 10, C. Sullivan, section man, Mackinaw. Fell off train; lack caution.

August 10, C. Sullivan, section man, Mackinaw. Fell off train; lack caution.

August 10, C. Sullivan, section man, Mackinaw. Fell off train; lack caution.

August 10, C. Sullivan, section man, Mackinaw. Fell off train; lack caution.

August 10, C. Sullivan, section man, Mackinaw. Fell off train; lack caution.

September 2, R. Mellynn, trespasser, Jactina Machina, Fell off train; lack caution.

September 3, Des Barlow, brakeman, Maron. Fell off train; lack caution.

September 3, W. Kline, brakeman, Maron. Fell off train; lack caution.

September 10, Marone 10, Sullivan
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### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employée.	Others.
Coupling cars	1	**************************************		1 2	14 12 2	
Miscellaneous  Overhead obstructions		2		1	12 1	
Frespassers on trainsFrespassers on tracks			14		••••••	
Total	1	6	18	4	41	1

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	25
Number of persons injured during the year	63
Number of casualties purely accidental  Number resulting from lack of caution, carelessness, or misconduct	10
Number resulting from lack of caution, carelessness, or misconduct	48
Trespassers and tramps killed or injured	30

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Conductors Laborers Yardmen Not classified above.	8 1	22 1 12	25 1 1 1
Total	6	40	46

## STATE OF MICHIGAN, } 88.

H. B. Ledyard, president, and A. J. Burt, auditor, of the Michigan Central Railroad Company, being duly sworn, depose and say that they have caused the foregoing statement to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

Signed,

H. B. LEDYARD, President, A. J. BURT, Auditor.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

[L. 8.]

JOHN F. PETHES, Notary Public in and for Wayne Co.

OF THE

### BATTLE CREEK & STURGIS RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed March 19, 1897.]]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

E. C. NICHOLS, Battle Creek, Mich.
C. VANDERBILT, New York City.
E. D. WORGESTER, New York City.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
A. J. BURT, Detroit, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 14, 1889. Date of annual meeting of stockholders: First Wednesday in June. Fiscal year of company ends December 31. General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is owned and the road is operated part by the Lake Shore & Michigan Southern and part by the Michigan Central Railroad Companies.

Amount authorized by charter or articles of association	0 00	,000,000.00
Par value of shares \$100 Average price rec-ived per share. 100 Number of shares issued. 5,000	0 00	
Amount paid in on common	\$500,000 00	
Total amount paid in as per books of the company		\$500,000 00
Paid in per mile of road owned by company, 41 miles		12,195 12

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out standing.
First mortgage, Dec. 1, 1889	3%	Dec. 1, 1989	New York City	\$500,000 00
1	RECAPITUL	ATION.	•	
Total funded debt			•••••	\$500,000 00
Total debt liabilities.				
Total amount of stock and debt				
INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due each year Was it paid for the last year? Yes.	•••••	<b>.</b>		\$15,000 00

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

The road was built by a former company, the records of which cannot be found, making it impossible to furnish this information.

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January, 1889.

### MAIN LINE.

	Miles.	Miles.
Length completed in Michigan, Battle Creek to Findley, operated by M. C. R. B. Length completed in Michigan, Findley to Sturgis, operated by L. S. & M. S.	88.80	
R'y	7.20	•
Total length completed		41.00
BRANCHES.		
Total length of road belonging to this company	41.00	41.00 4.01
Same in Michigan	4.01	
Aggregate length of tracks belonging to this company, computed as single track		45.01 45.01
Gauge of track, 4 feet 81/4 inches.		

## STATE OF MICHIGAN, } 68.

[L. S. OF R. R.]

H. B. Ledyard, president, A. J. Burt, secretary, of the Battle Creek & Sturgis Bailway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

H. B. LEDYARD, President.
A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.
[L. S.]

JOHN F. PETERS.

Notary Public in and for Wayns Co.

#### OF THE

## BAY CITY & BATTLE CREEK RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary, A. J. BURT, Detroit. Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City.
E. D. WORCESTER, New York City.
H. B. LEDYARD, Detroit, Mich.
HUGH MCMILLAN, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
A. J. BURT, Detroit, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 14, 1889. Date of annual meeting of stockholders: First Wednesday in June. Fiscal year of company ends, December 31. General offices of the company are located at Detroit, Mich.

#### REMARKS.

The stock is owned and the road operated by the Michigan Central Railroad Company.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association. Par value of shares	\$800,000 00	\$1,000,000 00
Total amount paid in, as per books of the company		300,000 00
Paid in per mile of road owned by company, 18 miles		16,666 66

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, Dec. 1, 1889	3%	Dec. 1, 1989	New York City	\$250,000 00

#### RECAPITULATION.

Total funded debt	250,000 00
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year	\$7,500 00
11 00 10 9010 101 100 1001 1 100.	

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

This road was built by a former company, the records of which cannot be found, making it impossible to furnish this information.

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: West Bay City to Midland.

MAIN LINE.	
. Miles.	Miles.
Length completed in Michigan 18.00	
Length completed in Michigan 18.00 Total length of road belonging to this company Aggregate length of sidings, spurs, and other tracks not above enumerated	18.00 2.41
Aggregate length of tracks belonging to this company, computed as single track.  Same in Michigan	20.41

Gauge of track, 4 feet 81/4 inches.

STATE OF MICHIGAN, 88.

H. B. Ledyard, president, and A. J. Burt,, secretary, of the Bay City & Battle Creek Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

H. B. LEDYARD, President, A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D., 1897.

[L. S.]

JOHN. F. PETERS, Notary Public in and for Wayne Co.

#### OF THE

### CANADA SOUTHERN BRIDGE COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York, N. Y.
Secretary and Treasurer, CHARLES F. COX, New York, N. Y.
Transfer Agent, HENRY B. AYERS, New York, N. Y.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y.
WILLIAM K. VANDERBILT, New York, N. Y.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York, N. Y.
CHARLES F. COI, New York, N. Y.
EDWIN D. WORCESTER, New York, N. Y.
EDWIN A. WICKES, New York, N. Y.
CHAUNCEY M. DEFEW, New York, N. Y.
HENRY B. LEDVARD, Detroit, Mich.
Term expires June, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: Consolidated, August 20, 1873. Number of stockholders at date of last election: 16. Number of stockholders in Michigan at same date: 3. Amount of full paid stock held in Michigan at same date: \$6,000 (60 shares). Date of annual meeting of stockholders: First Thursday after first Wednesday in June. Fiscal year of company ends, December 31. General offices of the company are located at Detroit, Mich.

#### REMARKS:

The stock is controlled by the Canada Southern Railway Company, and the road, bridge, etc., are operated by the Michigan Central Railroad Company as part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern companies.

Amount authorized by charter or articles of association. Par value of shares. Average price received per share. Number of shares issued 4,500	1	81,500,000 00
Amount paid in on common	\$450,000 00	
Total amount paid in as per books of the company		450,000 00
Paid in per mile of road owned by company, 3.66 miles		122,950 82

### ANALYSIS OF DEBT ACCOUNTS.

		FUNDED	DEBT.		
Class, character and date of i	ssue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mort. coupon bonds dated Feb. 1, 1874		75	Feb. 1, 1904	New York, N. Y.	\$1,000,000 00
Total funded debt					\$1,000,000 00
	1	UNFUNDED	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	ow liquidated.	Amount.
For miscellaneous					\$1,540,000 00 162,478 89
Total unfunded debt					\$1,702,478 89
	1	RECAPITUL	ATION.		
Total funded debt			<b></b>		. \$1,000,000 00 . 1,702,478 89
Total debt liabilities					
Total amount of stock and debt		•			. 3,152,478 89
What is the amount of same due of was it paid for the last year?	each year.				\$70,000 00
If interest is in default state the p Coupons due 1875 to 1896, inclusi	ve, at \$70,	amounts a 000.00 per	s follows: annum.		
O	OST OF 1	ROAD AN	D EQUIPMENT	<b>.</b>	
Total cost for construction	on and eq	uipment oj	f road and brane	ches built by compa	ny.
Total expended for construction					\$1,780,977 05
Proportion of cost of construction	n for Mich	igan: Al	1.		
	DESC	RIPTION	OF ROAD.		
Date when the road and bridge we September, 1873.	ere opene	d for use b	etween their pre	sent termini:	
		MAIN L	INE.	Miles	. Miles.
Length completed in Michigan		· · · · · · · · · · · · · · · · · · ·			
Total length completed				••	3.66
Total length of road belonging to Total length of road belonging to Aggregate length of sidings, spurs Same in Michigan	this comp , and othe	any in Mi r tracks n	chigan ot above enumer		1.75
Aggregate length of tracks belong Same in Michigan	ing to thi	s company	computed as si	ngle track5.4	- 1 5.41
Gauge of track, 4 feet 8% inches.					:

STATE OF NEW YORK, } ss.

COUNTY OF NEW YORK, } ss.

Charles F. Cox, treasurer and secretary, of the Canada Southern Bridge Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, d-clares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

C. F. COX, Treasurer and Secretary.

Subscribed and sworn to before me this 3d day of March, A. D. 1897.

EDGAR FREEMAN, Notary Public.

#### . OF THE

## DETROIT & BAY CITY RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, C. VANDERBILT, New York City. Secretary, E. D. WORCESTER, New York City. Vice President, H. B. LEDYARD, Detroit, Mich.

#### DIRECTORS.

C. VANDEBILT, New York City.

W. K. VANDERBILT, New York City.

H. B. LEDYARD, Detroit, Mich.

C. M. DEPEW, New York City.

S. F. BARGER, New York City.

Terms expire when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 26, 1881.

Number of stockholders at date of last election: 7.

Number of stockholders in Michigan at same date: 3.

Amount of full paid stock held in Michigan at same date: \$300.00

Date of annual meeting of stockholders: First Thursday after first Wednesday in May.

Fiscal year of company ends December 31.

General offices of the company are located at Detroit, Mich., and New York City,

#### REMARKS.

Under an agreement dated March 10, 1881, the Detroit & Bay City Railroad Company transferred the possession and control of its railroad and property to the Michigan Central Railroad Company. The latter company agreed to operate the same during its corporate existence. Under the terms of this agreement, the Michigan Central Railroad Company is authorized and agrees to issue its bonds to the amount of \$4,000,000, and both companies have joined in the execution of a mortgage upon all the Detroit & Bay City Railroad Company's property to secure the payment of said bonds.

Amount authorized by charter or articles of association Par value of shares			\$2,000,000 00
Par value of shares	• • • • •	100 00	
Average price received per share.  Number of shares issued.  Amount paid in on common.	0.000	200 00	
Amount paid in on common		2,000,000 00	
Total amount paid in, as per books of the company			
Paid in per mile of road owned by company, 149.90 miles			

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of \$4,000,000, secured by a first mortgage on the property of this company.

Total amount of stock and debt
Date when the road was opened for use between its present termini:
Date when the road was opened for use between its present termini:
MAIN LINE.
Miles. Miles.
Length completed in Michigan 109.00
Total length completed
BRANCHES.
Saginaw branch, from Denmark Junction to E. Saginaw
Caro branch, from Vassar to Caro
Bay City Belt Line7.01
Total length of branches owned by company
Total length of branches owned by company in Michigan 40.90
Total length of road belonging to this company
Total length of road belonging to this company in Michigan
Bay City Street R'y (leased) 5.10 Aggregate length of sidings, spurs, and other tracks not above enumerated. 63.55
Same in Michigan 68.55 Aggregate length of tracks belonging to this company, computed as single track 213.45
Same in Michigan 218.45

STATE OF MICHIGAN, }88.

Gauge of track: 4 feet 81/4 inches.

H. B. Ledyard, Vice President of the Detroit & Bay City Bailroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

H. B. LEDYARD, Vice President.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

JOHN F. PRTERS, Notary Public in and for Wayne Co.

#### OF THE

### DETROIT, DELRAY & DEARBORN RAILROAD COMPANY.

For the year ending December \$1, 1996.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
A. J. BURT, Detroit, Mich.
A. TORREY, Detroit, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 19, 1895.
Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 7.
Amount of full paid stock held in Michigan at same date: \$3,500.00.
Date of annual meeting of stockholders: No date set.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.	\$50,000 00
Par value of shares.       \$100 00         Average price received per share.       100 00         Number of shares issued.       35         Amount paid in on common.       \$3	,500 00
Total amount paid in, as per books of the company	\$8,500 00
Paid in per mile of road owned by company, 4.84 miles	725 21

### ANALYSIS OF DEBT ACCOUNTS.

### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction		\$42,751 98

#### RECAPITULATION.

Total unfunded debt	\$42,751 98
Total debt liabilities	\$42,751 98
Amount of debt liabilities per mile of road (4.84 miles)  Total amount of stock and debt  Stock and debt per mile of road	8,833 05 46,251 98 9,556 19

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction.  Average cost of construction per mile of road (not including sidings), 4.84 miles  Proportion of cost of construction for Michigan	\$46,251 98 9,556 19 46,251 98

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: October 5, 1895.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan	4.84	
Total length completed		4.84
Total length of road belonging to this company	4.84	4.84
Aggregate length of tracks belonging to this company, computed as single	track	5.16
Same in Michigan	5.16	

Gauge of track, 4 feet 81/4 inches.

STATE OF MICHIGAN, BS. COUNTY OF WAYNE,

H. B. Ledyard, president, and A. J. Burt, secretary, of the Detroit, Delray & Dearborn Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief. Signed,

[L. S. OF R. R.]

H. B. LEDYARD, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

[L. S.]

JOHN F. PRIERS, Notary Public in and for Wayne Co.

50

#### OF THE

## GRAND RIVER VALLEY RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JOHN M. ROOT, Jackson, Mich. Secretary, E. W. BARBER, Jackson, Mich. Treasurer, E. W. BARBER, Jackson, Mich.

#### DIRECTORS.

J. M. ROOT, Jackson, Mich.
E. W. BARBER, Jackson, Mich.
W. H. WITHINGTON, Jackson, Mich.
ALO. BENNETT, Jackson, Mich.
E. S. LACBY, Chicago, Ill.
NATHAN BARLOW, Hastings, Mich.
H. G. BARBER, Vermontville, Mich.
Terms expire October 5, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 11, 1894.

Number of stockholders at date of last election: 45.

Number of stockholders in Michigan at same date: 20.

Amount of full paid stock held in Michigan at same date: 3144,700.00.

Date of annual meeting of stockholders: First Monday in October.

Fiscal year of company ends December 31.

General offices of the company are located at Jackson, Mich.

### REMARKS.

Operated by the Michigan Central Railroad Company under an agreement for and during the lifetime of articles of association—999 years. First organized under special charter May 4, 1846; reorganized under general railroad law of Michigan April 25, 1894, and articles of association filed May 11, 1894.

Amount authorized by charter or articles of association.  Par value of shares	00 00	1,000,000 00
Total amount paid in, as per books of the company		491,200 00
Paid in per mile of road owned by company		5,862 27

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out standing.
First mortgage on road to secure bonds of Michigan Central (not a debt of this Co.)	6%	Sept. 1,1909	New York City	\$1,500,000 00
R	ECAPITUL	ATION.		•
Total mortgage				. \$1,500,000 0
Total mortgage liabilities	<b></b>			. \$1,500,000 0
Total amount of stock and mortgage Stock and debt per mile of road				1,991,200 0 28,762 2
INT	EREST ON I	MORTGAGE.		
What is the amount of same due each year.				. \$90,000 00
COST OF I	ROAD AN	D EQUIPMENT.		
COST OF E				OMPANT.
TOTAL COST FOR CONSTRUCTION AND EC	QUIPMENT	OF ROAD AND BRA	NORES BUILT BY O	
TOTAL COST FOR CONSTRUCTION AND BO *Total expended for construction per mile of roa Average cost of construction per mile of roa Proportion of cost of construction for Michi	QUIPMENT d (not inc igan: All	OF ROAD AND BRA	NORES BUILT BY O	
*Total cost for construction and be *Total expended for construction	QUIPMENT  d (not inc igan: All  RIPTION	OF ROAD.	NORES BUILT BY O	
*TOTAL COST FOR CONSTRUCTION AND BC  *TOTAL expended for construction	QUIPMENT  d (not inc igan: All  RIPTION	OF ROAD.  OF ROAD.  resent termini: 18	NORMS BUILT BY O	_ \$2,867,053 00 _ 34,229 1'
TOTAL COST FOR CONSTRUCTION AND BO *Fotal expended for construction	QUIPMENT  Id (not ino igan: All  RIPTION  Ween its po  MAIN L	OF EOAD AND BEA in Michigan. OF ROAD. resent termini: 18	NORMS BUILT BY O	_ \$2,867,053 0 _ \$4,229 1
TOTAL COST FOR CONSTRUCTION AND EX- *Fotal expended for construction per mile of roa Average cost of construction per mile of roa Proportion of cost of construction for Michi- DESC.  Date when the road was opened for use between the completed in Michigan	QUIPMENT  Id (not ino igan: All  RIPTION  Ween its po  MAIN L	OF EOAD AND BRA lluding sidings) 8s in Michigan.  OF ROAD. resent termini: 18	70. Miles. 83.7	_ \$2,867,053 0 - \$4,229 1 
TOTAL COST FOR CONSTRUCTION AND BO *Fotal expended for construction	QUIPMENT  Id (not ino igan: All  RIPTION  Ween its po  MAIN L	OF EOAD AND BRA lluding sidings) 8s in Michigan.  OF ROAD. resent termini: 18	70. Miles. 83.7	_ \$2,867,053 0 - \$4,229 1 
*Fotal expended for construction	QUIPMENT  Id (not ino igan: All  RIPTION  Ween its pi  KAIN LI  BBANCI	OF EOAD AND BRA lluding sidings) & in Michigan.  OF ROAD. resent termini: 18 INE.	70. Miles	_ \$2,967,053 0 
*Fotal expended for construction	QUIPMENT  Id (not inc igan: All  RIPTION  Ween its pi  MAIN LI  BRANCI	OF EOAD AND BRA lluding sidings) & in Michigan.  OF ROAD. resent termini: 18 INE.	70. Miles. 83.7	22,867,053 0 34,229 1
*Total expended for construction	QUIPMENT  Id (not inc igan: All  RIPTION  Ween its po  MAIN LI  BRANCI  r tracks no	OF ROAD AND BRA lluding sidings) Si in Michigan.  OF ROAD.  resent termini: 18  INE.  HES.  ot above enumers	70.  Miles. 83.7	22,867,053 00 34,229 1'  Miles 9

STATE OF MICHIGAN, } 85.

J. M. Root, president, and E. W. Barber, secretary, of the Grand River Valley Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

J. M. ROOT, President. E. W. BARBER, Secretary.

Subscribed and sworn to before me this 17th day of February, A. D. 1897.

A. W. McGER, Notary Public.

^{*}Of this total \$1,500,000.00 included in report of Michigan Central on account of leased lines.

#### OF THE

### JACKSON, LANSING & SAGINAW RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, HENRY B. LEDYARD, Detroit, Mich. Secretary, ORLANDO M. BARNES, Lansing, Mich. Treasurer, WM. M. THOMPSON, Jackson, Mich.

### DIRECTORS.

CORNELIUS VANDERBILT, New York City. HENRY B. LEDYARD, Detroit, Mich. HENRY B. JOY, Detroit, Mich. WM. M. THOMPSON, Jackson, Mich. HENRY HATDEN, Jackson, Mich. ORLANDO M. BARNES, Lansing, Mich.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 23, 1864.
Number of stockholders at date of fast election: 57.
Number of stockholders in Michigan at same date: 28.
Amount of full paid stock held in Michigan at same date: \$1,464,300 or 14,643 shares.
Date of annual meeting of stockholders: Second Tuesday of January.
Fiscal year of company ends: Calendar year.
General offices of the company are located at Lansing, Mich.

### REMARKS.

The Michigan Central Railroad Company operates the company's road under agreement which went into operation September 1, 1871.

Amount authorized by charter or articles of association. Par value of shares. Average price received per share. Number of shares issued. Amount paid in on common.	\$100 00 20,000		\$2,500,000 00
Total amount paid in, as per books of company			2,000,000 00
Paid in per mile of road owned by company	• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	6,777 36

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 31, 1882.

MAIN LINE.	Miles.
Length completed in Michigan 295.10	
Total length completed	295.10
BRANCHES.	
Twin Lakes branch, from Grayling to Twin Lakes	)
Total length of branches owned by company	27.80
Total length of road belonging to this company in Michigan	
Aggregate length of of sidings, spurs, and other tracks not above enumerated  Same in Michigan  284. 2  Aggregate length of tracks belonging to this company, computed as single track  Same in Michigan  557. 12	557.13
Gauge of track, 4 feet, 81/4 inches.	

STATE OF MICHIGAN, COUNTY OF INGHAM, }88.

Orlando M. Barnes, secretary, of the Jackson, Lansing & Saginaw Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1886, to the best of his knowledge and belief.

[L. S. OF E. E.]

ORIANDO M. RARNES. Secretary.

ORLANDO M. BARNES, Secretary.

Subscribed and sworn to before me this 4th day of February, A. D. 1897.

[L. S.]

C. J. DAVIS,

C. J. DAVIS,
Notary Public, Ingham Co. Mich.

#### OF THE

### KALAMAZOO & SOUTH HAVEN RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City.
ASHLEY POND, Detroit, Mich.
H. B. LEDYARD, Detroit, Mich.
HENEY RUSSEL, Detroit, Mich.
A. J. Burt, Detroit, Mich.
F. S. WINSTON, Chicago, Ill.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: April 15, 1869.
Number of stockholders at date of last election: 199.
Number of stockholders in Michigan at same date: 124.
Amount of full paid stock held in Michigan at same date: \$325,100.
Date of annual meeting of stockholders: Second Wednesday in March.
Fiscal year of company ends: December 31st.
General offices of the company are located at Detroit, Mich.

### REMARKS.

Leased to the Michigan Central Railroad Company, July 1, 1870, and is operated by it. The Michigan Central Railroad Company owns a majority of the capital stock.

Amount authorized by charter or articles of association.  Par value of shares		\$100 00		<b>\$5</b> 00,000 00
Par value of shares Average price received per share Number of shares issued	8.254	100 00		
Amount paid in on common			<b>8825,400 00</b>	
Total amount paid in as per books of the company				\$325,400 00
Paid in per mile of road owned by company, 39.50 miles				8,237 97

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of \$700,000, secured by a first mortgage on the property of this company, and pays the interest thereon as rent.

#### RECAPITULATION.

Total amount of stock and debt
--------------------------------

#### COST OF BOAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction	\$325,400 00 8,237 97 325,400 00

#### DESCRIPTION OF ROAD.

Date when road was opened for use between its present termini: January 2, 1871.

MAIN LINE.	Miles.	Miles,
Length completed in Michigan	39.50	
Total length completed		39.50
Total length of road belonging to this company  Total length of road belonging to this company in Michigan.	39.50	39.50
Aggregate length of sidings, spurs, and other tracks not above enumerated	P 40	5.13 44.63
Same in Michigan	44.63	
Gauge of track, 4 feet, 8½ inches.		

STATE OF MICHIGAN, as. County of Wayne, ss.

Ashley Pond, president, and A. J. Burt, secretary, of the Kalamazoo & South Haven Bailroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

ASHLEY POND, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

[L. S.]

GEO. E. TEGART, Notary Public, Wayne Co., Mich.

#### OF THE

### MICHIGAN AIR LINE RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary and Treasurer, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
E. D. WOEGSTER, New York City.
J. W. FRENCH, Three Rivers, Mich.
A. J. Burt, Detroit, Mich.
Terms expire when successors are elected.

#### *STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 14, 1868; March 19, 1870. Date of annual meeting of stockholders: Third Wednesday in October. Fiscal year of company ends: December 31. General offices of the company are located at Detroit, Mich.

#### REMARKS.

This property is under perpetual lease to the Michigan Central Railroad Company, and has been so since its construction.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$4,000,000 00
Par value of shares \$50 00
Number of shares issued 7,853 34

### ANALYSIS OF DEBT ACCOUNTS.

The Michigan Central Railroad Company has issued its bonds to the amount of \$2,600,000 secured by a first mortgage on the property of this company, and pays the interest thereon.

### † COST OF ROAD AND EQUIPMENT.

^{*}The Michigan Central now owns a majority of the stock and controls the property; the books were received in such an imperfect condition that the present management is unable to furnish all the information required by this form.

[†] Not known.

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January, 1871.

MAIN LINE. Miles.	Miles.
Length completed in Michigan 109.10 Length completed in Indiana 6.06	A1100.
Total length completed.	115.16
Total length of road belonging to this company Total length of road belonging to this company in Michigan 109.10 Aggregate length of sidings, spurs, and other tracks not above enumerated. 22.29 Same in Michigan 22.29	115.16 24.31
Aggregate length of tracks belonging to this company, computed as single track	189.47

Gauge of track, 4 feet 814 inches.

STATE OF MICHIGAN, Solution of Wayne,

H. B. Ledyard, president, and A. J. Burt, secretary, of the Michigan Air Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

H. B. LEDYARD, President.

A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

JOHN F. PRIERS, Notary Public in and for Wayne Co.

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#### OF THE

### MICHIGAN MIDLAND & CANADA RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York, N. Y.
Secretary and Treasurer, CHARLES F. COX, New York, N. Y.
Transfer Agent, HENRY B. AYERS, New York, N. Y.

### DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y. WM. K. VANDERBILT, New York, N. Y. JAMES TILLINGHAST, Buffalo, N. Y. SAMURL F. BARGER, New York, N. Y. CHARLES F. COX, New York, N. Y. EDWARD A. WIOKS, New York, N. Y. CHAUNGEY M. DEPEW, New York, N. Y. CHARLES C. CLAERE, New York, N. Y. Terms expire June, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 17, 1872.
Number of stockholders at date of last election: Twenty-eight.
Number of stockholders in Michigan at same date: Four.
Amount of full paid stock held in Michigan at same date: One hundred and twelve shares (\$11,200.)
Date of annual meeting of stockholders: First Thursday after first Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation, made December 12, 1882, between the Michigan Central and Canada Southern Companies.

Amount authorized by charter or articles of association Par value of shares Average price received per share Number of shares issued.	8,000	\$100 00 100 00	\$400,000 00	•
Amount paid in on common			300,000 00	
Total amount paid in as per books of the company				\$800,000 00
Paid in per mile of road owned by company, 14.68 miles				20,435 96

### ANALYSIS OF DEBT ACCOUNTS.

		FUNDED 1	DEBT.		
Class, character and date of iss	sue.	Rate of interest.	When due.	Where payable	Amount outstanding.
First mortgage coupon bonds dat 1. 1873, and scrip	ed July	74	July 1, 1900	New York, N.	Y \$323,635 00
	ī	Infun drd	DEBT.		
For what incurred.	Is t	he same t	o be funded or he	ow liquidated.	Amount.
Interest on bonds					\$507,605 00 97,745 72
Total unfunded debt		•••••			\$605,850 72
		ECAPITUL	ATION.		
Total funded debt Total unfunded debt					\$323,685 00 605,850 72
Total debt liabilities					
Amount of debt liabilities per mile Total amount of stock and debt Stock and debt per mile of road, 14	.68 miles				63,282 40 1,228,985 72
1876 1877 and '78, each	ars and	amounts a	as follows:	\$4,025 9,765 20,900 21,499 22,546	6 00 6 00 0 00 0 00 0 00
CO	ST OF 1	ROAD AN	D EQUIPMENT	<b>!.</b>	
Total cost for construction  Total expended for construction  Average cost of construction per mi					\$586,342 02
	DESC	RIPTION	OF ROAD.		
Date when the road was opened for December 4, 1874, St. Clair to Ridge			resent termini:		
		MAIN L	INE.	Mi	les. Miles.
Length completed in Michigan				14	<b>68</b>
Total length completed					14.68
Total length of road belonging to the Total length of road belonging to the Aggregate length of sidings, spurs a Same in Michigan	and othe	r tracks n	ot above enumer	ated	.68 .92 .92 15.60
Same in Michigan	18 M 101	e comban	······································	igio track	5.60
Gauge of track, 4 foot 8½ inches.					

STATE OF NEW YORK, }ss.

Charles F. Cox, treasurer and secretary of the Michigan Midland & Canada Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other natters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF E. E.]

Signed]

C. F. COX, Treasurer and Secretary.

Subscribed and sworn to before me this 3d day of March, A. D., 1897.
[L. S.]

EDGAR FREEMAN, Notary Public.

#### OF THE

## SAGINAW BAY & NORTHWESTERN RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich.

### DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
A. J. BURT, Detroit, Mich.
HENEY RUSSEL, Detroit, Mich.
F. J. HECKEE. Detroit, Mich.
Term expires when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 27, 1884.
Date of annual meeting of stockholders: First Thursday after first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is owned and the road is operated by the M. C. R. R. Co.

Amount authorized by charter or articles of association.  Par value of shares.  Average price received per share, as per books of Co	\$300,000 00
Total amount paid in, as per books of company	20,000 00
Paid in per mile of road owned by company, 83.01 miles.	240 93
RECAPITULATION.	
Total amount of stock and debt	\$20,000 00 240 98

#### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

Total expended for construction, as per books of company	38	2,716 85 2,716 85 225,526 15
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini; May, 18	i9.	
MAIN LINE.	Miles.	Miles.
Length completed in Michigan  Total length completed		28.72
Branches.		
Sundry branches, from main line into woods	54.29	
Total length of branches owned by company		54. <b>29</b>
Total length of branches owned by company in Michigan	54.29	
Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Aggregate length of sidings, spurs, and other tracks not above enumerated	88.01	88.01 10.57
Same in Michigan Aggregate length of tracks belonging to this company, computed as single	10.57	98.58
Same in Michigan	98.58	

## STATE OF MICHIGAN, SOUNTY OF WAYNE, S8.

Gauge of track, 4 feet 8% inches.

Ashley Pond, president, and A. J. Burt, secretary, of the Saginaw Bay & Northwestern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed

ASHIEVY POND. Procedure

[L. S. OF B. R.]

ASHLEY POND, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

GEO. E. TEGART, Notary Public, Wayne Co. Mich.

OF THE

# TOLEDO, CANADA SOUTHERN & DETROIT RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York, N. Y. Secretary and Treasurer, CHARLES F. COX, New York, N. Y. Transfer Agent, HENRY B. AYERS, New York, N. Y.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y. WM. K. VANDERBILT, NEW YORK, N. Y. JAMES TILLINGHAST, Buffalo, N. Y. SAMUEL F. BARGER, New York, N. Y. CHARLES F. COX, New York, N. Y. EDWIN D. WORGESTER, New York, N. Y. EDWARD A. WICKES, New York, N. Y. CHAUNCEY M. DEPEW, New York, N. Y. ALLYN COX, New York, N. Y. Terms expire, June, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered, or articles of association filed: Consolidation (July 19, 1872), of the Detroit & State Line R. R. Co., of Michigan, and the Junction Railway Co. of Ohio.

Number of stockholders at date of last election: 17.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date: 10 shares (\$1,000.)

Date of annual meeting of stockholders: First Thursday after first Wednesday in June.

Fiscal year of company ends December 31.

General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

Amount authorized by charter or articles of association	\$100 00 100 00		\$2,000,000 00
Average price received per share Number of sharee issued. 15,476% Amount paid in o common.			
Total amount paid in, as per books of the company			1,547,662 50
Paid in per mile of road owned by company, 58 92 miles		•••••	26,267 18

#### OF THE

### MIDLAND & HUBBARD RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed February 23, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, COLLINS B. HUBBARD, Detroit. Mich. Secretary, RDWIN B. HUTCHINSON, Detroit, Mich. Treasurer, GEORGE DINGWALL, Detroit, Mich. Vice President, HOYT POST, Detroit, Mich.

#### DIRECTORS.

COLLINS B. HUBBARD, Detroit, Mich. GEORGE DINGWALL, Detroit, Mich. HOTT POST, Detroit, Mich. EDWARD A. DINGWALL, Detroit, Mich. EDWIN B. HUTCHINSON, Detroit, Mich.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 25, 1893. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: 120 shares. Date of annual meeting of stockholders December 17. Fiscal year of company ends December 17. General offices of the company are located at Detroit, Mich.

### REMARKS.

Lease executed June 20, 1894, by the Midland & Hubbard Railroad Company to the Midland & Northern Railway Company until November 1, 1903, at a nominal rental of one (1) dollar per year, the leases to operate the road during the term of the lease, and furnish transportation for freight and passengers.

Amount authorized by charter or articles of association			\$80,000 00
Par value of shares	<b>\$100 00</b>		• •
Average price received per share	100 00		
Amount paid in on common		<b>\$</b> 12,000 00	
Total amount paid in, as per books of the company			12 000 00
Paid in per mile of road owned by company			1,200 00
•			

### ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

For miscelianeous	\$3,586 25
RECAPITULATION.	
Total debt liabilities	\$3,586 25
Amount of debt liabilities per mile of road, 10 miles  Total amount of stock and debt  Stock and debt per mile of road.	358 62 15,586 25 1,558 62
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	•
Total expended for construction of road bed and right of way	\$15,586 25 1,558 62
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: January 1, 1894.	
MAIN LINE.	Miles.
Length completed in Michigan	10
Total length road belonging to this company	10
Gauge of track, 4 feet 8⅓ inches.	

STATE OF MICHIGAN, } as.

Hoyt Post, vice president, and Edwin B. Hutchinson, secretary, of the Midland & Hubbard Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1898, to the best of their knowledge and belief.

[L. S. OF R. R.]

HOYT POST, Vice President.
EDWIN B. HUTCHINSON, Secretary.

Subscribed and sworn to before me this 18th day of February, A. D. 1897.

FRED B. PORTER,
Notary Public, Wayne Co. Mich.

#### OF THE

### MIDLAND & NORTHERN RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed May 12, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, W. B. REMINGTON, Midland, Mich. Fice President, CHAS. BROWN, Midland, Mich. Secretary, JNO. W. KELTY, Midland, Mich. Treasurer, J. W. KELTY, Midland, Mich. General Manager, CHAS. BROWN, Midland, Mich.

#### DIRECTORS.

W. B. REMINGTON, Grand Rapids, Mich.
M. P. ANDERSON, Midland.
JNO. W. KELTY, Midland.
ALBRET REEN, Midland.
CHAS. BROWN, Midland.
WM. D. GORDON, Midland.
E. E. REMINGTON, Grand Rapids.
Terms expire with the year.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 12, 1894.
Number of stockholders at date of last election. Seven.
Number of stockholders in Michigan at same date: Seven.
Amount of full paid stock held in Michigan at same date: \$2,500,
late of annual meeting of stockholders: Tuesday following second Monday in January.
Fiscal year of company ends December 31.
General offices of the company are located at Midland, Mich.

#### GENERAL EXHIBIT.

Total earnings from operation Total expenses, including taxes	\$886 99 1,820 48
Net deficit	\$938 49
Balance for the year.	933 49
Balance (profit and loss) last year	1,438 31
Balance forwarded to next year	\$2,371 80
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association Par value of shares	\$25,000 00
Amount paid in on common \$2,500 00	
Total amount paid in, as per books of the company	\$2,500 00
Paid in per mile of road owned by company	250 00

# ANALYSIS OF DEBT ACCOUNTS.

# UNFUNDED DEST.

CAPUAD DESI.	
Total unfunded debt	\$8,547 29
RECAPITULATION.	
	<b>60 847 80</b>
Amount of debt liabilities per mile of road, 10 miles	\$8,547 29 854 78 11,047 29
Total amount of stock and debt. Stock and debt per mile of road.	11,047 29 1,104 78
Sword and usur per mile of road.	1,104 78
GENERAL BALANCE SHEET.—Dr.	
Construction account	\$5,915 29
Equipment account	\$5,915 29 2,760 26 2,871 80
Total	
10001	\$11,047 29 ———
GENERAL BALANCE SHEET.—CR.	
Capital stock	\$2,500 00
Other liabilities (list as follows):	0 547 00
Account of Cleveland W. W. Co.	8,547 29
Total	\$11,047 29
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	•
Total expended for construction and equipment.	\$8,675 49
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 10 miles.  Proportion of cost for Michigan. All.	867 55
Proportion of cost for michigan. All.	
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.	
FREIGHT BARNINGS.	
Local traffic	\$886 99
Total freight department earnings Total transportation earnings, entire line	\$886 99 886 99
Per mile of road	88 70
Transportation earnings per mile of road	\$88 70
Total earnings from operation of road.	\$886 99
Total earnings per mile of road	88 70
Total income from all sources.	\$886 99
ANALYSIS OF EXPENSES.	
Total	\$1,820 48
RECAPITULATION OF EXPENSES.	
Conducting transportation	\$1,820 48
Total operating expenses and taxes	\$1,820 48
Percentage of expenses to earnings, 2.05.	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini.
From Midland to Hubbard, January, 1895.

WAIN LINE.	
M;	iles. Miles.
	10.
Total length completed	10.
Gauge of track, 4 feet 81/4 inches.	
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? F. & P. M. R. B. at Midland. M. C. R. R. at Midland.	
At what crossings are interlocking and derailing switches in operation?  F. & P. M. at Midland.  M. C. at Midland.	
What pattern or patterns have you adopted?  Johnson.	
Number of crossings of highways at grade in this State.	
Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 1883 Yes.	31
How are they treated? Wooden blocks,	
Stations.	
Namber of stations on whole lines	
Employés.	
Number of persons regularly employed on all roads operated by company, inclus officials  Same in Michigan	1
Classify your employés as per following list:	Number
Conductors	1
Firemen	1
Fencing in Michigan.	-
How many miles of fencing have you	ichi-
,	
Total miles required	20
Road bed and track.	
Number of track sections in Michigan Average lengths of sections (miles,	1
·	
ROLLING STOCK.	Present esti-
Num	ber, mated value
Number of locomotives of 10 to 20 tons weight, exclusive of tender	1 \$900 00 1 75 00
Number of express and baggage cars Number of platform cars.	2 75 00
Logging.	12 1,000 0
STATE OF MICHIGAN, COUNTY OF MIDIAND. \$88.	
Charles Brown, vice president, and Jno. W. Kelty, secretary and treasurer of t	he Midland and
Northern Railway Company, being duly sworn, depose and say that they have or ing statements to be prepared by the proper officers and agents of this company and are the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same declared the same	aused the forego

Charles Brown, vice president, and Jno. W. Kelty, secretary and treasurer of the Midland and Northern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. B.]

Signed,

CHARLES BROWN. JNO. W. KELTY.

Subscribed and sworn to before me this 11th day of May, A. D. 1897.

[L. S.]

F. E. BARBOUR, Notary Public in and for Midland Co., Mich.

#### ANNUAL REPORT

OF THE

# MINERAL RANGE RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed April 5, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WM. F. FITCH, Marquette, Mich.
Vice President, W. E. PARNALL, Laurium, Mich.
Secretary, A. E. MILLER, Marquette, Mich.
Auditor, A. E. DELF, Marquette, Mich.
Treasurer, R. W. ALLEN, Marquette, Mich.
Assistant Treasurer and Assistant Secretary, GEO. H. CHURCH, New York, N. Y.
General Manager, WM. F. FITCH, Marquette, Mich.
Superintendent, J. C. SHIELDS, Hancock, Mich.
General Passenger Agent, GEO. W. HIBBARD, Marquette, Mich.
General Preight Agent, WM. ORR, Duluth, Minn.
Attorney, A. B. ELDRIDGE, Marquette, Mich.

### DIRECTORS.

WILLIAM F. FITCH, Marquette, Mich.
E. W. ALLEN, Marquette, Mich.
A. E. DELF, Marquette, Mich.
J. G. REYNOLDS, Marquette, Mich.
E. C. WILLIAMS, Marquette, Mich.
C. H. SHAFFEE, Marquette, Mich.
JAS. E. JOPLING, Ishpeming, Mich.
W. E. PARNELL, Laurium, Mich.
THOS. NELSON, Boston, Mass.
GEO. H. CHURCH, New York, N. Y.
J. HUGHP PETERS, New York, N. Y.
Terms expire July 14, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 3, 1871. Number of stockholders at date of last election: 20. Number of stockholders in Michigan at same date: 10. Amount of full paid stock hold in Michigan at same date: 100 shares. Date of annual meeting of stockholders: Second Tuesday in July. Fiscal year of company ends: December 31. General offices of the company are located at Marquette, Mich.

	NERAL E		Debit.	Credit.
Total earnings from operation				_ \$108, <b>28</b> 5 56
Net income				\$48,412 60
Interest on funded debtInterest on unfunded debt			17,025 0 8,228 30	0
Balance applicable to dividends				23,159 22
Dividends declared (75)			\$27,538 00	
Balance for the year			4,878 7	8
Balance (profit and loss) last year				159,613 88
Items not included in above				12,500 00
Balance forward to next year				\$167,785 10
ANALYS	IS OF CA	PITAL STOCK.		
Amount authorised by charter or articles o Par value of shares Number of shares issued			00 00 \$893,400 0	<b>\$400,000 00</b>
Total amount paid in as per books of th				•
Paid in per mile of road owned by company				
ANALYS.	FUNDED	BT ACCOUNTS.  DEBT.		
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
M. R. R. R. main line first mortgage, June 1	. 8%	June 1, 1888	New York City	\$6,000 00
M. R. R. R. main line general mortgage December 14, 1886  M. R. R. R. consolidated mortgage, Jan. 1	4%	Jan. 1, 1937	New York City	7,300 00
M. R. R. R. consolidated mortgage, Jan. 1 1891	5%	Jan. 1, 1931	New York City	*600,000 00
Total funded debt	,			\$618,300 00
* Of the \$600,000.00 five per cent bonds, \$25	9,500.00 ar	e in the treasury	of the company.	<u> </u>
	UNFUNDED	DEBT.		
For what incurred.	he same to	be funded or ho	w liquidated?	Amount.
For miscellaueous. To be positive for current balances. "To be positive for current balances."	aid in cash			\$148,500 00 145,197 85
Total unfunded debt				\$293,697 85
	RECAPITUL	ATION.		
Total funded debtTotal unfunded debt	·····			\$613,300 00 293,697 85
Total debt liabilities				
Amount of debt liabilities per mile of road Total amount of stock and debt	l (17.40 mile	98)		52,126 31 1,800,397 85 74,785 51

# GENERAL BALANCE SHEET.-DR.

Construction account Equipment account		\$645,988 91 188,328 00
Other investments':  Hancock & Calumet R. R.  Peninsular Copper mine Houghton County Agricultural and Driving Park Association Mineral Hange R. R. 5% bonds Dayton & Southeastern R. R. bonds	\$250,000 00 2,044 00 640 00 259,500 00 10,400 00	522,584 00
Cash items: Cash Bills receivable Due from agents	\$4,812 08 125,500 00 5,485 06	185,797 14
Other assets:  Materials and supplies  Debit balances from companies and individuals	\$29,138 14 1,346 76	
Total		30,484 90 \$1,468,182 95
GENERAL BALANCE SHEET.—Cr.		
Capital stock		\$393,400 00 618,800 00
Unfunded debt: Interest unpaid. Dividends unpaid. Notes payable. Vouchers and accounts.	\$1,284 75 13,769 00 148,500 00 130,144 10	
Profit and loss or income accounts.		293,697 85 167,735 10
Total		\$1,468,132 95
COST OF ROAD AND EQUIPMENT.		
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches build total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.		\$779,266 91 44,785 45
Total cost for construction and equipment of road and branches build a sepanded for construction and equipment		\$779,266 91 44,785 45
Total cost for construction and equipment of road and branches but  Total expended for construction and equipment  Average cost per mile of road (not including sidings), 17.40 miles		\$779,266 91 44,785 45
Total cost for construction and equipment of road and branches build Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE		\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches built Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line:  Other items.  New fences.  Total.	\$816 67 55 55 \$372 22	\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches build total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line:  Other items.  New fences.	YEAR. \$816 67 55 55 \$372 22	\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches built Total expended for construction and equipment. Average cost per mile of road (not including sidings), 17.40 miles. Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE  Main line: Other items. New fences. Total.  Total charges to property account as above.	\$316 67 55 55 \$372 22	\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches built Total expended for construction and equipment. Average cost per mile of road (not including sidings), 17.40 miles. Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line: Other items. New fences. Total.  Total charges to property account as above. Net addition to property account.	\$316 67 55 55 \$372 22	\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches built Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line:  Other items.  New fences.  Total.  Total charges to property account as above.  Net addition to property account.  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI	\$316 67 55 55 \$372 22	\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches build total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line:  Other items.  New fences.  Total.  Total charges to property account as above.  Net addition to property account.  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI  PASSENGER BARNINGS.  Main line and branches:  Local fares.  Total passenger fares	\$316 67 55 55 \$372 22 CHIGAN. \$31,132 16	\$779,266 91 44,785 45 779,266 91
Total cost for construction and equipment of road and branches built Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line: Other items. New fences.  Total.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI PASSENGEE BARNINGS.  Main line and branches: Local fares.	\$316 67 55 55 \$372 22 CHIGAN.	\$779,266 91 44,785 45 779,266 91 \$372 22 372 22
Total cost for construction and equipment of road and branches build total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE Main line:  Other items.  New fences.  Total.  Total charges to property account as above.  Net addition to property account.  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI PASSENGER BARNINGS.  Main line and branches:  Local fares.  Total passenger fares  Express and baggage.	\$316 67 55 55 \$372 22 CHIGAN. \$31,132 19 \$31,132 19 1,658 05 1,830 55	\$779,266 91 44,785 45 779,266 91 \$372 22 372 22

Main line and branches:	
Local traffic \$73,455 02	
Total traffic	
Total freight department earnings	\$74,006 94
Per train mile	\$108,127,74
Miscellaneous receipts from operating account, other than for transportation: From rents not otherwise provided for	
Total	107 82
Distribution of miscellaneous earnings between main line and leased or proprietary roads	
Company: Total mis- cellaneous. f	
Mineral Range B. R	\$107 82
Total earnings from operation of road  Total earnings per mile of road  Total earnings per train mile  1 09.83  Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings	\$108,235 56 108,235 56 6,220 43 12,500 00
Total income from all sources	\$120,735 56
Proportion of income for Michigan,	120,785 56
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fitures. Repairs and renewals of dooks and wharves. Repairs and renewals of tooks and wharves. Repairs and renewals of telegraph Stationery and printing	
Total	\$9,712 76
MAINTENANCE OF EQUIPMENT.	
Superintendence. Bepairs and renewals of locomotives. Bepairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of shop machinery and tools. Other expenses.	\$1,185 00- 1,994 56 1,056 45 2,697 78 583 81 66 36
Total	\$7,583 96
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tailow and wate for locomotives Train service Train service Train supplies and expenses Switchmen, figmen and watchmen Telegraph expenses Station service Station service Loss and dynage In juries to persons Advertising Rent of buildings and other property Stationery and printing	\$1,416 49 6,140 11 7,810 35 75 00 374 55 64 29 3,280 29 324 65 1,051 83 1,236 62 9,390 95 116 14 132 31 40 38 340 00 442 56
Total	\$33,112 92

#### GENERAL EXPENSES.

Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses Stationery and printing (general offices). Other expenses Taxes		\$2,550 00 2,041 19 135 56 1,037 50 491 21 91 64 151 95 2,861 27 \$9,413 82
RECAPITULATION OF EXPENSES.	Per cent of	ľ
Maintenance of way and structures	expenses. 16.24	\$9.712.76
Maintenance of way and structures	12.68	\$9,712 76 7,583 96
Conducting transportation. General expenses, including taxes.	55.85 15.78	88,112 92 9,413 82
Total operating expenses and taxes		\$59,822 96
Operating expenses and taxes per mile of road		\$3,438 10
Operating expenses and taxes per train mile run, for trains, earning revenue, 98,544 miles	\$0 60.71	<b>40,000</b> =0
Total proportion of expenses for Michigan		59,822 96
Percentage of expenses to earnings	55.27	
Net earnings per mile of road. 2 Net earnings per train mile	1,782 88 49.18	
Not earnings per train mile	49.10	
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Houghton to Red Jacket, October 11, 1873.		
MAIN LINE.	200	20.1
In Michigan, from Houghton to Red Jacket	Miles. 15.20	Miles.
Total length completed		
		15.20
Branches.		15.20
Franklin, from Franklin Junction to Onincy Mine.	2.20	
Franklin, from Franklin Junction to Onincy Mine.	2.20	15.20 2.20
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20	
Franklin, from Franklin Junction to Quincy Mine.  Total length of branches owned by company.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.	2.20 2.20 17.40	2.20
Franklin, from Franklin Junction to Quincy Mine.  Total length of branches owned by company.  Total length of road belonging to this company in Michigan.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above enum  Aggregate length of tracks in Michigan belonging to this company, computed	2.20 2.20 17.40 erated	2.20 17.40 4.87
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated	2.20 17.40
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated	2.20 17.40 4.87 21.77
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single	2.20 17.40 4.37 21.77
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single Number.	2.20 17.40 4.37 21.77 Aggregate length feet. 1,7254
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single	2.20 17.40 4.37 21.77 Aggregate length feet.
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single Number.	2.20 17.40 4.37 21.77 Aggregate length feet. 1,7254
Franklin, from Franklin Junction to Quincy Mine.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above enum  Aggregate length of tracks in Michigan belonging to this company, computed track.  Gauge of track, 3 feet.  Number of bridges and trestles in Michigan.  Wooden bridges  Wooden trestles.	2.20 2.20 17.40 erated as single Number. 5	2.20 17.40 4.37 21.77 21.77 Aggregate length feet. 1,725½ 162
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single Number. 5 4	2.20 17.40 4.37 21.77 21.77 Aggregate length feet. 1,725½ 162 1,887½
Franklin, from Franklin Junction to Quincy Mine.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above enum  Aggregate length of tracks in Michigan belonging to this company, computed track.  Gauge of track, 3 feet.  Number of bridges and trestles in Michigan.  Wooden bridges  Wooden trestles.	2.20 2.20 17.40 erated as single Number. 5 4	2.20 17.40 4.37 21.77 21.77 Aggregate length feet. 1,725½ 162
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single Number. 5 4	2.20 17.40 4.37 21.77 21.77 Aggregate length feet. 1,725½ 162 1,887½
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single Number. 5 4	2.20 17.40 4.37 21.77 21.77 Aggregate length feet. 1,725½ 162 1,887½
Franklin, from Franklin Junction to Quincy Mine	2.20 2.20 17.40 erated as single Number. 5 4	2.20 17.40 4.37 21.77 21.77 Aggregate length feet. 1,725½ 162 1,887½

How swung, by engine or hand power:	
Engine.  Approaches straight or curved:	
Curved.	
Do you require all trains to come to full stop before crossing a draw, and how are they sign Yes; by flagman.	aled7
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State and at what locality? Hancock & Calumet R. R. at Oscoo:a. Hecla & Torch Lake R. R. at Calumet. Quincy & Torch Lake R. B. at Franklin.	
At what crossings are interlocking and derailing switches in operation? Osceola and Calumet.	
What pattern or patterns have you adopted? Pennsylvania Steel Co., Saxby & Farmer machine.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen.  Number of orossings of highways over or under railroad: over, 1; under, 1.  Number of highway bridges 18 feet above track.	18 2 2 1
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, Session Laws of 18837 Yes.	
How are they treated? Filled in with wooden blocks	
Stations.	
Number of stations on whole lines.	
Same in Michigan	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	103 103
Classify your employés as per following list:	Number
BaggagemenBrakemen.	2 5 3 5 12 24 24 45
Conductors	3 5
Firemen	5
Laborers	12
Yardmen	2
Others	45
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	
Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	
Houghten county.	12.80
Total miles required	12.80
Road bed and track.	
Number of track sections in Michigan	8
Average lengths of sections, miles	ĕ
Average number of men in each section gang  Number of new ties put in whole line during the year	4 04.
Number of new ties put in track in Michigan	4,251
Average number of new ties per mile of road.	244

# BOLLING STOCK.

		Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	. 1	\$21,000,00 6,900 00 20,000 00
Total	. 8	\$47,900 00
Number of passenger cars—8-wheel, including official cars  Number of express and baggage cars  Number of bat freight cars  Number of platform cars  Number of conductors' way cars  Other cars as follows:  Gondola, 30: snow plow, 1	- 2 - 86 - 69 - 2	\$24,000 00 5,000 00 25,800 00 17,250 00 1,000 00 8,450 00
Total		\$129,400 00
Number of locomotives equipped with power brakes		8 9
What patterns of power brakes have you in use, and number of locomotives and 5 locomotives, Westinghouse. 3 locomotives, American Brake Co., vacuum brake. 9 passenger cars, Westinghouse.	cars with	each?
Are your freight cars being equipped with automatic counlers as required by a	ct No. 147.	session laws

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887;
Yes.

What pattern or patterns have you adopted for use? Blocker.

How are your passenger cars heated? Baker hot water heater.

# MILEAGE, TRAFFIC, ETC.

Train mileage.		All in Michigan.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.		39,970 58,574 98,544
Passenger traffic.—Road all in State of Michigan.		
Number of local passengers carried, earning revenue	Miles.	Rate.
Total number of passengers carried, earning revenue		
Number of passengers carried one mile		
Average distance carried	9.698	<b>\$</b> 0 24.781
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers		02.556 02.556
Freight traffic.—Road all in State of Michigan.		
Tons. Number of tons of local freight carried, earning revenue	Miles.	Rate.
Total tons of freight carried, earning revenue		
Total mileage of local freight.	1,024,921	1
Total freight mileage or tons carried one mile	1,024,921	
Average ton haul for local freight	8.263	
Average ton haul for all freight	8.263	
Average amount received for each ton haul.  Average receipts ton per mile, for local freight		\$0 59.226 07.168 07.168

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigh	nt tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	4,599		4,599	8.71
Flour Other mill products	2,054		2,064	1.66
Other mill products	8,380 2,180		3,330 2,180	2.69 1.76
Hay Fruit and vegetables	4,521		4,521	3.65
Products of animals:		1	·	
Live stock	291		291	0.22
Dres-ed meats			2,281	1.84
Other packing house products	105		105	0.08
Poultry, game and fish	80		30	0.02
Products of mines:				
Anthracite coalBituminous coal	51,610		18 51,610	0.01 41.61
Coke	31,010		164	0.18
Stone, sand and other like articles	2,300		2,800	1.86
Products of forest:				
Lumber	7,087		7,067	5.70
Loga	145		145	0.12
Manufactures:				
Petroleum and other oils.	737 138		787 138	0.59
Sugar Iron, pig and bloom	2,022		2,022	0.11 1.63
Iron and steel rails	680		630	0.50
()thur gestings and machinary	2,178		2,178	1.76
Bar and sheet metal	588		5×8	0.47
Cement, brick and lime	1,338		1,338	1.08
Wagons, carriages, tools, etc.	32		83	0.08
Wines, liquors and beers Household goods and furniture	1,989 79		1,959	1.60 0.06
Merchandise	20,118		20,118	16.22
Miscellaneous: Other commodities not mentioned above	13,491		13,491	10.88
Total tonnage	124,025		124,025	100

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express  $^{\circ}$ Co. Mineral Range R. R. receives \$100.00 per month. They do a general business. We take their freight at our depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
15 miles; belongs to Mineral Range R. R. Co.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURED.

January 16, H. Roberts, baggsgeman, Hancock. Leg cut slightly while handling glass.
January 27, John Host, brakeman. Hancock. Riding on side of car; struck by scale house.
May 7, Ames DeMarse, transferman, Houghton. Ran nail into foot in jumping from car.
May 12, B. Baril, transferman, Houghton. Hand crushed while handling freight.
June 6, Dan O'Neal, trespasser, Quincy. Fell under switch engine; left leg crushed, two toes cut off, and foot crushed badly.
June 17, John Lang, passenger, Red Jacket. Jumped of moving train to catch his hat; face badly bruised.
June 21, Geo. Allan, traspasser, Hancock. June 21, Geo. Allen, trespasser. Hancock. Trying to get on moving train; fell off bridge and broke his September 24, P. McCarthy, brakeman, Franklin. Jumping from Gondola car; ran neil into right foot. December 10, P. McNamara, transferman, Houghton. Left leg broken while transfering copper; accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes or accident.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
				1	6	
Trespassers on trains Trespassers on tracks						i
Total	 			1	6	2

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Trespassers and tramps killed or injured
------------------------------------------

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Beggagemen		1 2 8	1 2 8
Total		6	6

STATE OF MICHIGAN, ss. COUNTY OF MARQUETTE,

A. E. Delf, auditor, of the Mineral Range Railroad Company, being duly aworn deposes and says that he has caused the fregoing statements to be prepared by the prepared to the company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF E. E.]

Signed,

Subscribed and sworn to before me this 1st day of April, A. D. 1897.

[L. S.]

CHARLES A. PAYNE, Notary Public, Marquette Co., Mich.

A. E. DELF, Auditor.

# ANNUAL REPORT

#### OF THE

# MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 15, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, THOMAS LOWRY, Minneapolis.
Vice President, JOHN MARTIN, Minneapolis.
Secretary, C. F. CLEMENT, Minneapolis.
Auditor, C. W. GARDNER, Minneapolis.:
Treasurer, C. F. CLEMENT, Minneapolis.
Great Manager, F. D. UNDERWOOD, Minneapolis.
Superintendent, E. PENNINGTON, Minneapolis.
Division Superintendents:

D. WILLARD, Minneapolis.
F. C. BATCHELDER, Minneapolis.
Chief Engineer, W. W. RICH, Minneapolis.
Superintend nt of Telegraph, H. A. TUTTLE, Minneapolis.
General Pussenger Agent, W. R. CALLAWAY, Minneapolis.
General Freight Agent, W. L. MARTIN, Minneapolis.

#### DIRECTORS.

THOMAS LOWEY, Minneapolis, Minn.
W. D. WASHBUEN, Minneapolis, Minn.
W. B. DEAN, St. Paul, Minn.
JNO. S. PILLSBUEY, Minneapolis, Minn.
F. H. PBAVEY, Minneapolis, Minn.
SIE W. C. VAN HORN, Montreal, Can.
T. G. SHAUGNESSY, Montreal, Can.
JOHN MARTIN, Minneapolis, Minn.
C. H. PETTIT, Minneapolis, Minn.
W. H. BEADLEY, Tomabawk, Wis.
Terms expire 1st Tuesday in June, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 11, 1888. Number of stockholders at date of last election: 87. Date of annual meeting of stockholders: First Tuesday in June. Fiscal year of company ends June 30. General offices of the company are located at Minneapolis.

GENERAL EXHIBIT. Debit.	Credit	<u>.</u>
Total earnings from operation \$2,291,191 83	\$3,685,043	80
Net income	\$1,396,851	97
Interest on funded debt         \$147,016 84           Interest on unfunded debt         49,258 46           Rentals of buildings, tracks, etc.         101,021 09		39
Balance for the year	\$99,555	58
Balance (profit and loss) last year         \$823,555 87           Loss on sale of boats "1896"         100,291 70	)	
Balance forward to next year	\$824,292	99
analysis of capital stock.		
Amount authorized by charter or articles of association	<b>\$</b> 21,000,000	00
Amount paid in on preferred		
Total amount paid in, as per books of the company		00
Paid in per mile of road owned by company, 1,170.21 miles	17,945	21 —

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

\$3,204,000 0 8,280,000 0
16,861,000 0 771,000 0 18,469 5
20,908 8 584,591 7

^{*} Principal and interest in monthly installments of \$1,122.46 each, until November, 1897.
† Principal and interest in monthly installments of \$1,900.80, until November, 1897.
† Principal and interest in monthly installments of \$1,900.80, until November, 1897.

| Principal and interest in half yearly payments of \$41,816.80 each.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For real estate	To be paid from real estate To be paid from earnings and assets of the road	\$88,000 00 2,738,380 04
Total unfunded debt		\$2,821,380 04

#### RECAPITULATION.

Total funded debt			
Total unfunded debt		\$29,753,978 2,821,380	10 04
Total debt liabilities		32,575,358	14
Amount of debt liabilities per mile of road, 1,170.21 miles		27,837 53,575,858	19 14
Stock and debt per mile of road, 1,170.21 miles.		45,752	6
GENERAL BALANCE SHEETDr.			
Construction account \$40,91 Equipment account 4,50	2.049 48 3,958 86		
Other investments:			
Aberdeen, Bismarck & Northwestern R'y 5,39 Real estate 24	7,472 79 3,244 18	\$51,059,72 <b>5</b>	26
Cash items:		,,	
Cash Bills receivable Due from agents 17	8,696 65 8,386 00 9,676 18	829,758	83
Other assets:			
Sinking funds—Sault Ste. Marie Bridge Co.   Debit balances from companies and individuals	7,829 50 7,501 72 8,000 84 5,600 00 200 00 0,200 00 8,750 00		
Income account.		861,582 824,291	06 99
Total			
GENERAL BALANCE SHEET.—Cr.  Capital stock		121 000 000	<u> </u>
Funded debt:		121,000,000	w
First mort. M. & P. bonds.       \$3,20         First mort. M. S. & A. bonds.       8.28         First mort. M., St. P. & S. S. M. consols.       16,86         Income certificates.       77	1,000 00 0,000 00 1,000 00 1,000 00 7,978 10		10
First mort. M. & P. bonds	7,978 10 	<b>29,753,97</b> 8	10
First mort. M. & P. bonds. \$3,20 First mort. M. S. S. & A bonds. 8,28 First mort. M. St. P. & S. S. M. consols. 16,86 Income certificates. 77 Car Trust notes. 63  Unfunded debt:  Interest unpaid. \$51! Notes rayable 100 Vouchers and accounts 1,85  Other liabilities: Pay rolls 59 Foreign roads balances 9	7,978 10 	29,753,978	
First mort. M. & P. bonds. \$3,20 First mort. M. S. S. & A bonds. 8,28 First mort. M., St. P. & S. S. M. consols. 16,86 Income certificates. 77 Car Trust notes. 63  Unfunded debt:  Interest unpaid. \$51! Notes rayable 100 Vouchers and accounts 1,85  Other liabilities: Pay rolls 15 Foreign roads balances 9	9,100 00 8,000 00 7,795 11 1,730 20 1,763 96 9,990 77	29,753,978 2,821,380	04
First mort. M. & P. bonds   \$3,20     First mort. M. S. S. & A bonds   8,28     First mort. M. St. P. & S. M. consols   16,86     Income certificates   77     Car Trust notes   63     Unfunded debt:     Interest unpaid   \$51     Notes rayable   10     Vouchers and accounts   1,85     Other liabilities:     Pay rolls   15     Foreign roads balances   9     Taxes   8     Total	9,100 00 8,000 00 7,795 11 1,730 20 1,763 96 9,990 77	29,753,978 2,821,380	04
First mort. M. & P. bonds. \$3,20 First mort. M. S. S. & A bonds. \$2,28 First mort. M. St. P. & S. S. M. consols. \$16,86 Income certificates. 77 Car Trust notes. 63  Unfunded debt: Interest unpaid. \$51! Notes cayable \$10 Vouchers and accounts \$1,85  Other liabilities: Pay rolls \$15 Foreign roads balances \$9 Taxes \$8  Total. \$63  COST OF ROAD AND EQUIPMENT.	7,978 10 9,100 00 3,000 00 7,795 11 1,730 20 1,763 96 9,990 77	29,753,978 2,821,380 \$53,575,358	04
First mort. M. & P. bonds   \$3,20     First mort. M. S. S. & A bonds   8,28     First mort. M. S. P. & S. S. M. consols   16,86     First mort. M. St. P. & S. S. M. consols   16,86     Income certificates   77     Car Trust notes   63     Unfunded debt:     Interest unpaid   \$51     Notes cayable   10     Vouchers and accounts   1,85     Other liabilities:     Pay rolls   15     Foreign roads balances   9     Taxes   8     Total	7,978 10 9,100 00 3,000 00 7,795 11 1,730 20 1,763 96 9,990 77	29,753,978 2,821,380 \$53,575,358	04

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

•	Extensions and new sidings.	Bridges & other con- struction.	New buildings.	New fences.	New loco- motives.	New cars.	Total.
Main line	\$30,290 74 635 92	\$67,455 55	\$5,311 97	\$1,239 94	\$1,842 68	\$5,670 41	\$89,846 58
A. B. & N. W. R. R.	030 92						635 92
Total charges	\$30,926 66	<b>\$67,455</b> 55	\$5,811 97	\$1,239 94	\$1,842 68	\$5,670 41	<b>\$90,482 45</b>
Total charges to pro Property sold and c Net addition to pro	redited						\$101,464 83 10,982 88 90,482 45
	ANALYSIS	OF EARN	INGS.—IN S	STATE OF	MICHIGA	N.	
	_	PASS	ENGER HARI	IDIGS.			
Main line and brane Local fares Through fares		·····				\$48,945 42 67,325 06	
Total passenger	fares			· • • • • • • • • • • • • • • • • • • •		\$116,270 48	
Express and bagg Mails Other sources						7,769 50 24,966 69 6,284 76	
Total passenger	department e	arnings			·		\$155,291 <b>43</b>
Per train mile Per mile of road						\$0 77.63 779 46	
		)FR	EIGHT EAR	INGS.			
Main line and brance Local traffic Through traffic						\$223,909 08 387,856 49	
Total traffic					·	\$611,765 57	
Other sources, frei	ight departme	nt				2,166 90	
Total freight de	partment ear	nings					613,932 47
Per train mile Per mile of road						\$1 86.16 3,081 52	
	ANAL	YSIS OF E	ARNINGS	-ENTIRE	Lin <b>e</b> s.		
M-1- W 33	<b>.</b>	PASS	enger earn	INGS.			
Main line and branc Local fares Through fares						\$279,504 97 195,577 21	
Total passenger	fares					\$475,082 18	
Express and bagge Mails Other sources						37,377 36 160,927 70 25,171 95	
Total passenger	department e	arnings					\$698,589 19
Per train mile Per mile of road						\$0 68.51 587 <b>66</b>	
Main line and branc Local traffic			IGHT BARNI		\$	1,769,959 54	
Through traffic						1,189,496 69	
Total traffic					\$	2,939,452 23	

Other sources, freight department \$6,739 98	
Total freight department earnings	
Per train mile       \$1.84.72         Per mile of road       2,495.82	
Total transportation earnings, entire line	
tion, as follows: From telegraph (Michigan proportion \$3,943.91).  22,127 24 From other sources (Michigan proportion \$225,98) 1,145 16	
Total	3,688,043 80
Total earnings from operation of road	\$3,688,043 80
Total earnings per train mile 1 41.94 Priportion of taxable earnings for Michigan 3,826 65 . Income other than from earnings:	773,393 79
Car mileage	
Total income from all sources	
Proportion of income for Michigan; earnings, \$773,393.79; car mileage, \$7,476.06	780,869 85
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$226,906 61
Renewals of rails	3.315.35
Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards	48,001 78
Repairs and renewals of bridges and culverts.	55,224 71 4,071 24
Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.	34,890 06
Repairs and renewals of docks and wharves	5,648 78
Repairs and renewals of telegraph	6,585 80 441 18
Total	\$384,586 96
MAINTENANGE OF EQUIPMENT.	*** *** ***
Superintendence	\$25,134 05 177,004 61
Repairs and renewals of passenger cars	44,808 78
Repairs and renewals of freight cars	148,568 72
Repairs and renewals of work cars  Repairs and renewals of shop machinery and tools.	9,578 79 12,868 95
Stationery and printing	1,908 24
Total	\$419,872 09
CONDUCTING TRANSPORTATION.	
	P\$0 140 97
Superintendence. Engine and roundhouse men.	\$50,140 87 201,815 83
Fuel for locomotives	284,811 06
Fuel for locomotives Water supply for locomotives. Oil, tal ow and waste for locomotives.	15,604 02 7,790 HK
Other supplies for locomotives	8,785 94
Train service.	154.468 38
Train supplies and expenses. Switchmen, flagmen and watchmen.	34,817 76 81,834 91
Telegraph expenses	50.952 <b>6</b> 0
Station service	145,593 92 9,821 08
Station supplies Switching charges—balance	4.301.82
Car mileage — balance	30,862 88
Hire of equipment	5,249 21 20,481 78
Injuries to persons	265.799 59
Clearing wrecks. Operating marine equipment, including docks.	1,732 89 35,825 67
Advertising	35,825 67 14,140 24
Outside agencies	78,950 47
Stock yards and elevators  Rents for tracks, yards and terminals	4,993 90 65,686 38
Rent of buildings and other property	748 <b>63</b>
Stationery and printing Other expenses	15,780 88
	18,823 12
Total	\$1,265,006 01

GENERAL EXPENSES.		
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies.  Insurance Law expenses Stationary and printing (general offices)		\$23,587 22 34,508 08 11,328 84 15,972 84 17,203 98 4,078 19
Law expenses Stationery and printing (general offices) Other expenses Taxes		4,911 85 110,641 27
Total		\$222,228 77
RECAPITULATION OF EXPENSES.		
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.		\$394,586 96 419,372 09 1,265,006 01 222,226 77
Total operating expenses and taxes		\$2,291,191 83
Operating expenses and taxes per mile of road		1,977.99
2,598,291 miles Proportion of operating expenses and taxes for Michigan, main line		556,218 41
Total proportion of expenses for Michigan.		\$556,218 41
Percentage of expenses to earnings.  Net earnings per mile of road	\$1,085 05 40.99	
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini:		
From Minneapolis, Minn., to Sault Ste. Marie, Mich., January 1, 1838. From Minneapolis, Minn., to Lidgerwood, N. D., December 20, 1836. From Lidgerwood, N. D., to Boynton, N. D., October 29, 1837. From Boynton, N. D., to Merricourt, N. D., November 5, 1891. From Cardigan Junction, Minn., to St. Paul, Minn., February 22, 1838. From Dresser Junction, Wis., to St. Crox Falls, Wiss., September 12, 1837. From Hankinson, N. D., to Valley City, N. D., Nov. 11, 1891. From Valley City, N. D., to Cathay, N. D., December 1, 1892. From Merricourt, N. D., to Kulim, N. D., November 13, 1892. From Cathay, N. D., to Portal, N. D., September 25, 1893.		
MAIN LINE.	Miles.	Miles.
In Michigan, from Sault Ste. Marie to Menominee River	192.01 262.80 273.59 360.82	
Total length completed		1,039 22
BRANCHES.	1 10	
From Gladstone, Mich., to end of track.	1.10 1.13 1.51	
From Cherry, Mich , to end of track. From Ma-onville, Mich , to end of track	.73 .39 .61	
From Marblehead, Mich., to ead of track. From Dresser Junction, Wis , to St. Croix Falls. From Brantwood, Wis., to end of track.	1.41 4.05 4.57	
From Glen Flora, Wis., to end of track From Prentice, Wis., to end of track From Rhinelander, Wis., to end of track	.40 .53 .62	
From Gladstone, Mich., to end of track  From Setif, Mich., to end of track  From Setif, Mich., to end of track  From Cherry, Mich., to end of track.  From Maronville, Mich., to end of track.  From Bast Lake, Mich., to end of track.  From Dressar Junction, Wis., to st. Croix Falls  From Brantwood, Wis., to end of track  From Glen Flora, Wis., to end of track  From Prentice, Wis., to end of track  From Armstrong Creek, Wis., to end of track  From Armstrong Creek, Wis., to end of track  From Cardigan Junction, Minn., to St. Paul  From Camden Place, Minn., to Northtown Junction  From Camden Place, Minn., to Northtown Junction  From Hankinson, N. D., to Kulm, N. D.	3.05 5.34 1.01 104.54	
Total length of branches owned by company		130.99
Total length of branches owned by company in Michigan	6.83	
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan	97 70	1,170 21
enumerated Aggregate length of tracks in Michigan belonging to this company, computerack	ed as single	234.39
Gauge of track, 4 feet 8% inches.		

# Proprietary or leased roads operated by this company.

	Total miles.	In Michigan.
Name, description and length of each: Minneapolis and St. Paul terminals	7.16	
Sault Ste. Marie terminals St. Paul to Minneapolis	.34 11.00	.34
Total	18.50	
Total miles operated by the company	1,188.71	199.23
Number of bridges and trestles in Michigan.	Veebee	Aggregate length, feet.
Wooden bridges	Number. 18	2,449
Wooden trestles, and approaches to bridges.	89	14,010
Total	102	16,459
	<del></del>	
Orossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality?		
D., S. S. & A. R. R. at Trout Lake.		•
D., S. S. & A. R. R. at Trout Lake. C. & N. W. R. R. at Hermansville. C. & N. W. B. R. at Felch Junction. Logging R. R. at Delta Junction.		
Logging R. R. at Delta Junction.		
Logging R. R. at Dunleith. Logging R. R. at Naubinway.		
Logging R. B. at South Manistique. Logging R. B. at Manistique.		
What railroads cross your road either over or under your grade in this State,	end where!	
Over—	and whole:	
C. & N. W. R. R. at Flat Rock.		
At what crossings are interlocking and derailing switches in operation? Felch Junction with C. & N. W. B'y.		
What pattern or patterns have you adopted?, Union Switch & Signal Co.		
Number of crossings of highways at grade in this State		51 2
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws 188. Yes.	37	
How are they treated? Wood blocks.		
Stations.		
Number of stations on whole lines.		115
Same in Michigan		18
•		
Employés.		
Number of persons regularly employed on all roads operated by company, including		2,082
Same in Michigan		Number in
Classify your employés as per following list:		Michigan.
Baggagemen Brakemen	}	33
Conductors		18
Engineers. Firemen. Firemen are employed by engineers.		23
Laborers		100
ShopmenYardmen		82 19
Others	· · · · · · · · · · · · · · · · · · ·	208

# REPAIRS AND RENEWALS.

# Fencing in Michigan.

How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michi and the counties in which needed:	gan,	223.
		Miles.
Menominee.		23
Delta		12
Schoolcraft		16.2
Mackinac		28.6
Chippewa		81.2
Total miles required		161
Road bed and track.		
Number of track sections in Michigan.		27.
Average lengths of sections, miles Average number of men in each section gang Number of new ties put in whole line during the year		7.38
Average number of men in each section gang		<del>4</del> .
Number of new ties put in whole line during the year.		236,445.
Number of new ties put in track in Michigan		69,298. 199.
New rails put in track:		100.
Steel tons 359, 5-112 Total miles of track laid with new rails		3.19
Total miles of track laid with new rails		8.19
ROLLING STOCK.		Present esti-
		mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	103 1	
Total	104	\$816,094 06
		4020,002 00
Number of passenger cars—12-wheel, including official cars.	10	85,498 16
Number of passenger cars—8-wheel, including official cars	35	155,678 88
Number of express and baggage cars.	. 28	45,183 71
Number of box freight cars	101 101	1,579,910 80 43,586 10
Number of stock cars	705	141,540 10
Number of practice	150	
Number of ore cars. Number of conductors' way cars. Other cars as follows: Refrigerator, 13; furniture, 10; charcoal, 50; ballast, 52;	78	49,881 00
Other cars as follows: Refrigerator, 13; furniture, 10; charcoal, 50; ballast, 52;	•	,
maintenance of way, 10	135	92,456 16
Total		\$3,055,075 32
<del></del>	=	
Number of locomotives equipped with power brakes.		103
Number of passenger-train cars equipped with power brakes		68
Number of freight cars equipped with power brakes.		471
What patterns of power brakes have you in use, and number of locomotives and cars each?	with	
		104
Locomotives—Westinghouse air, 94; steam, 10.  Cars—Westinghouse air, passenger equipped, 68; box freight, 419; flat, 52; ballast	. 50:	20%
plow, 2	,	591
Are your freight cars being equipped with automatic couplers as required by Act No. of 1885, as amended by Act No. 88. Session Laws of 1887?  We are complying with U. S. statutes.	147, 8	Session Laws
How are your passenger cars heated? Steam heat and Baker improved fire proof heaters.		
		•
WILL DAME AND ABOUT DATE		

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. I	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains Miles run by mixed trains	1,898,218	179,198 267,255 83,379
Total mileage of trains earning revenue		529,830

WICHIGAN KAIDKOAD KETUK	10, 100	<b>.</b>	
Passenger traffic.—Entire lines.			
Number of through passengers carried, earning revenue	40,333 234,904	Miles.	Rate.
Total number of passengers carried, earning revenue	275,237		
Number of passengers carried one mile2			
Average distance carried.		80.45	
Average amount received from each passenger			\$1 73 01.69 02.41 02.05
Passenger traffic.—In State of Michiga	ın.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	24,979 50,270		
Total number of passengers carried, earning revenue	75,249		
Number of passengers carried one mile	5,146,968		
Average distance carried		<b>68.3</b> 8	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			\$1 54 01.85 03.21 02.58
Freight traffic.—Entire lines.	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	946,409 1,169,248		
Total tons of freight carried, earning revenue	2,115,657		
Total milage of through freight		221,415,844 239,607,237 461,022,581	
Average ton hard for through freight		234 205 218	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average ton receipts per mile, for local freight  Average receipts ton per mile, for all freight			\$1 89 00.53 00.74 00.64
Freight traffic.—In State of Michiga	n.	•	
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 659,294 624,752	Miles.	Rate.
Total tons of freight carried, earning revenue	1,284,046		
Total mileage of through freight Total mileage of local freight		59,°50,702 29,866,889	
Total freight mileage or tons carried one mile		88,917,591	
Average ton haul for through freight  Average ton haul for local freight  Average ton haul for all freight		89 48 69	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.			\$0 47.00 00.65 00.75 00.69

# FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

# Company's material excluded.

	Freight	Freight re- ceived from	Total freigi	ht tonnage.
Commodity.	originating on this road. Whole tons.	connecting roads and other carriers Whole tons.	Whole tons.	Per cent.
Products of agriculture:	474,065	1,727	475,792	22.48
Flour	284,218	192	284,410	13.44
Flour Other mill products	28,006	877	23,383	1.10
Hay	20,465 4,879	725 7.541	21,190	1.00
Hay Fruit, vegetables and potatoes Other products	616	289	12,420 855	.58 .04
Products of animals: Live stock.	11 470	.,,	11 500	*0
Dressed meats	11,476 6,789	114 97	11,590 6,886	.50 .82
Poultry, game and fish	887	1,455	2.342	.11
Wool Hides and leather	3,636	43	3,674	.17
	1,518	399	1,917	.09
Products of mines:	0.405	0,00	m	
Anthracite coal Bituminous coal and coke	3,687 12,508	24,210 63,709	27,897 76,217	1.32 3.60
Charcoal	13,646	536	14,182	.67
OresStone, sand and other like articles	41,449	259,915	801,864	14.24
Stone, sand and other like articles	2,752 1,478	549 5,621	3,301 7,099	.15 .88
Products of forest:				
Lumber	615,023	46,900	661,928	81.29
Shingles	010,020	10,500	. 001,826	01.25
Manufactures: Petroleum and other oils	0.440	0.160		••
Sugar	3,443 1,296	3,168 8,077	6,611 9,373	.80 .44
SugarIron, pig and bloom	1,296 5,319	1,981	7,800	.84
Iron and steel rails	i 509	1 853	1,362	.06
Other castings and machinery Bar and sheet metal	8,862 276	8,279 820	12,141	.57
Cement, brick, and lime	12.857	990	13,847	.65
Agricultural implements	1 2.598	990 1,157	8,750	.17
Wagons, carriages, tools, etc	369	1 509	878	.04
Wines, liquors and beers	2,788 1,755	1,920	4,658 2,445	.22 .12
Other manufactured articles.	9,229	5,648	14,887	.70
Merchandise	48,704	27,675	71,879	3.87
Miscellaneous: Other commodities not mentioned above	14,143	15,845	29,488	1.39
Total tonnage	1,624,196	491,461	2,115,657	100

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

<b>a</b>	Freight	Freight re- ceived from connecting	Total freigl	nt tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:	100 700	529	194,327	15.13
GrainFlour	193,798 247,926	156	248.082	. 19.32
Other mill products	18,968	185	19,103	1.48
Hay	14,765	358	15,123	1.17
Fruit and vegetables	1,842	7,402	9,244	.72
Potatoes	1 '	142	365	.08
Products of animals:				
Live stock	394	70	464	.08
Dressed meats	6,193 814	1,249	6,290 2,063	.49 .16
Wool	3.515	1,220	3.515	.27
Wool Hides and leather	1,199	67	1,266	.10
Products of mines:	4 400	94 100	00 007	0.00
Anthracite coal Bituminous coal and coke	4,468 2,499	24,139 63,389	28,607 65,888	2.22 5.12
Charcoal	13,566	536	14,102	1.09
OresStone, sand and other like articles	42,376		293,480	22.85
Stone, sand and other like articles		549 5,606	2,784 6,652	.21 .54
Products of forest:				
Lumber)	044 604	10 100	300 505	00.54
Logs Shingles	244,601	19,196	263,797	20.54
Manufactures:		9.000	0.740	
Petroleum and other oilsSugar	82 157	2,680 8,078	2,712 8,235	.21 .65
Iron, nig and bloom	5,076	1,968	7,044	.55
Iron, pig and bloom Iron and steel rails	155	832	i 1987	.55
Other castings and machinery	1 715	8,232	8,947	.69
Bar and sheet metal.	231	819	1,050	.06 .86
Cement, brick and lime	10,214	932 1,115	11,146 1,115	.80 .06
Wagons, carriages, tools, etc.		1,113	1,182	.06
Wines, liquors and beers	1,481		3,241	.25
Wines, liquors and beers	833	660	993	.07
Other manufactured articles	7,893	5,482	13,875	1.04
Merchandise	9,147	25,185	84,832	2.67
Miscellaneous: Other commodities not mentioned above	2,809	12,424	15,233	1.18
Total tonnage	838,621	445,425	1,284,046	100

# ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Company.

They do a general express business, this company's station agents as a usual thing acting as their agents.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
Miles of line, 1,178.6; miles of wire, 2,931.2. Owned by this company.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

April 16, unknown, trespasser, near Radfords Spar. Struck by engine. May 20, Nick Nippler, trespasser, Corrinne. Run over by train. May 24, Miss Sofia Dohl, trespasser, Gladstone. Run over by train. October 18, Ole Oleson, trespasser, near Corrinne. Drunk; run over.

#### INJURED.

January 5, Jno E. Robinson, brakeman, Caro. Slipped; sprained ankle.

January 25, J. J. Kolinski, brakeman, Gladstone. Slipped; hip bruised.

January 25, J. J. Kolinski, brakeman, Gladstone. Slipped; hip bruised.

January 25, J. J. Kolinski, brakeman, Gladstone. Fell from capola in cab; wrist sprained.

February 4, M. Stimmons, Soo. Elutting care. Fell from capola in cab; wrist sprained.

February 19, Jno. Keboe, North Escanaba. Fell from car: a kle spreined.

March 18, Jno. Olsou, trackman, near Gladstone. Struck by tie; chest bruised.

March 18, Jno. Flobinson, brakeman, Gladstone. Hit by plank; foot sprained.

April 4, Geo. F. Dilley, brakeman, Trout Lake. Coupling; thumb crushed.

April 21, Jno. E Robinson, brakeman, Gladstone. Hit by plank; foot sprained.

Ayril 21, Benjamin Everett, cooper. Gladstone. Hit by hatchet; hand cut.

April 28, M. J. McKeleys, boiler maker, Gladstone. Slipped; back sprained.

May 10, Carl Popks, trackman, Van Winkle. Slipped; side bruised.

July 6, E. Vaumex, dockman, Gladstone. San thou volocip-de; right leg cut off.

July 3, Mr. S. Rosebush, trespasse, near Bovee. Ran into volocip-de; right leg cut off.

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July 3, Mr. S. Rosebush, trespasse, near Bovee. Ran into volocip-de; right leg cut off.

July 3, Mr. S. Rosebush, trespasse, near Bovee. Ran into volocip-de; right leg cut off.

July 3, Mr. S. Rosebush, trespasse, near Bovee. Ran into volocip-de; right leg cut off.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars. Falling from trains.					8	
Miscellaneous.  Trespassers on tracks			4		47	i
Total	<b></b>		4		56	1

#### **BUMMARY OF ACCIDENTS IN MICHIGAN.**

Number of persons killed during the year	57

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Bratemen		111	
Engineers Firemen Laborers Shopmen		1 29 5	
Yardmen Not classified above		1	
Total		56	56

# STATE OF MINNESOTA, BB. COUNTY OF HENNEPIN,

F. D. Underwood, general manager, and C. W. Gardner, auditor, of the Minneapolis, St. Paul & Sault Ste. Marie Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. D. UNDERWOOD, C. W. GARDNER.

Subscribed and sworn to before me this 13th day of April, A. D. 1897.
[L. s.]

W. R. COLLINS, Notary Public, Minnesota.

#### ANNUAL REPORT

OF THE

# MUNISING RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed March 16, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, DAN. P. EELLS, Cleveland, Ohio.

Pice President, FAYETTR BROWN, Cleveland, Ohio.

Secretary, D. B. CHAMBERS, Cleveland, Ohio.

Auditor, H. A. ST. JOHN, Munising, Mich.

Treasurer, HOWARD P. EELLS, Cleveland, Ohio.

General Manager, EMMET H. SCOTT, La Porte, Ind.

General Superintendent, JAS. C. DOUGHERTY, Munising, Mich.

Chief Engineer, R. C. YOUNG, Munising, Mich.

Superintendent of Telegraph, H. W. BARRE, Munising, Mich.

Cashier, R. T. MAC LEAN, Munising, Mich.

General Passenger Agent, H. A. ST. JOHN, Munising, Mich.

General Freight Agent, H. A. ST. JOHN, Munising, Mich.

Attorney, A. ST. J. NEWBERRY, Cleveland, Ohio.

# DIRECTORS.

DAN. P. EBLLS, Cleveland, Ohio.
FAYETTE BROWN, Cleveland, Ohio.
JOSEPH COLWELL, Cleveland, Ohio.
E. F. MICHAEL, LA PORTE, Ind.
ROBERT E. MORRISON, LA PORTE, Ind.
Terms expire July 20, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 20, 1895.

Number of stockholders at date of last election: 10.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock beld in Michigan at same date: \$207,000.00.

Date of annual meeting of stockholders: July 20.

General offices of the company are located at Munising, Mich.

GENERAL EXHIBIT.		•
	Debit.	Credit.
Total earnings from operation	\$18,260 42	\$85,902 24
Net income		\$17,641 82
Balance forward to next year.		\$17,641 82

# ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$870,000 00
Total amount paid in, as per books of the company	870,000 00
Paid in per mile of road projected by company, 87 miles	10,000 00

# ANALYSIS OF DERT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
30 year gold bonds	6%	Oct., 1926	New York City	\$2,000 00
Total funded debt				\$2,000 00

\$278,000.00 in total bonds (at the rate of \$8,000.00 per mile of completed track) have been issued but these are all except \$2,000.00 within control of the company.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction For equipment. For current balances		\$340,287 75 45,788 58 12,835 05
Total unfunded debt		\$398,881 38

# RECAPITULATION.

Total funded debt	\$2,000 00 398,881 88
Total debt liabilities.	\$400,881 88
Amount of debt liabilities per mile of road, 25.49 miles  Total amount of stock and debt.  Stock and debt per mile of road, 25.49 miles	15,727 01 1,270,881 88 49,858 03

#### GENERAL BALANCE SHEET.-Dr.

Construction account	\$32,647 94 91,774 94	
Other investments: Real estate and permanent contracts	780,208 50	\$1,204,631 38
Cash items: Cash Bills receivable Dues from agents	\$4,712 62 61,893 25 4,667 52	71.278 40
Other assets:  Materials and supplies.  Debit balances from companies and individuals, sundry accounts  Total	\$3,622 97 8,995 45	-,

# GENERAL BALANCE SHEET.—CR.

Capital stock	\$870,000 00	
Funded debt:	2,000 00	\$872,000 00
Notes payable	\$304,709 49 94,171 89	
Profit and loss or income accounts	17,641 82	416,523 20
Total.	8	1,288,523 20
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built	t by compan	y.
Total expended for construction and equipment Average cost per mile of road (not including sidings) 25.49 miles Proportion of cost for Michigan		\$424,422 88 16,650 56 16,650 56
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
main line.		
Extensions and new sidings		\$323,496 <b>97</b> 9,151 87
New locomotives		28,459 72 68,315 22
Total		\$424,422 88
Total charges to property account as above		424,422 88 424,422 88
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MIC	CHIGAN.	
PASSENGER BARNINGS.  Main line and branches:		
Main line and branches: Local fares	\$8,436 30	
Main line and branches: Local fares  Total passenger fares	\$3,436 80	
Main line and branches: Local fares		
Main line and branches: Local fares  Total passenger fares  Express and baggage	\$3,436 80 328 85 569 31	84,384 <b>4</b> 6
Main line and branches: Local fares  Total passenger fares.  Express and baggage Mails	\$3,436 80 328 85 569 31	\$4,334 <b>4</b> 6
Main line and branches: Local fares  Total passenger fares.  Express and baggage.  Mails  Total passenger department earnings.  Per train mile  Per mile of road  FERIGHT BARNINGS.	\$3,436 80 828 85 569 31 \$1 12	<b>84,384 46</b>
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings  Per train mile.  Per mile of road.	\$3,436 80 828 85 569 31 \$1 12	\$4,384 <b>46</b>
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails  Total passenger department earnings.  Per train mile  Per mile of road  PREIGHT BARNINGS.  Main line and branches:  Local traffic	\$3,496 80 \$28 85 589 31 \$1 12 170 04 30,758 26 691 27	\$4,384 46 31,449 58
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  FREIGHT BARNINGS.  Main line and branches:  Local traffic.  Through traffic.	\$3,496 80 \$28 85 589 31 \$1 12 170 04 30,758 26 691 27	
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails  Total passenger department earnings.  Per train mile.  Per mile of road  Main line and branches:  Local traffic  Through traffic  Total freight department earnings  Per train mile.	\$3,496 80 \$28 85 569 31 \$1 12 170 04 30,758 26 691 27 \$2 46 1,233 80	
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  Main line and branches:  Local traffic.  Through traffic.  Total freight department earnings.  Per train mile.  Per mile of road.	\$3,496 80 \$28 85 569 31 \$1 12 170 04 30,758 26 691 27 \$2 46 1,233 80	31,449 58
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails  Total passenger department earnings.  Per train mile.  Per mile of road  Main line and branches:  Local traffic  Through traffic  Total freight department earnings  Per train mile.  Per mile of road.  Total transportation earnings, entire line  Transportation earnings per mile of road.	\$3,496 80 \$28 85 569 31 \$1 12 170 04 30,758 26 691 27 	31,449 58
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  Main line and branches:  Local traffic.  Through traffic.  Total freight department earnings.  Per train mile.  Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation:  From telegraph companies.  Total.	\$3,496 80 \$28 85 569 31 \$1 12 170 04 30,758 26 691 27 	31,449 58
Main line and branches:  Express and baggage.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  Main line and branches:  Local traffic.  Through traffic.  Total freight department earnings.  Per train mile.  Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation:  From telegraph companies.	\$3,496 80 \$28 85 589 31 \$1 12 170 04 30,758 26 691 27 \$2 46 1,233 80 1,403 84 2 80 118 25	31,449 58 \$35,783 99
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails.  Total passenger department earnings  Per train mile.  Per mile of road.  FREIGHT BARNINGS.  Main line and branches:  Local traffic.  Through traffic.  Total freight department earnings.  Per train mile.  Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation:  From telegraph companies.  Total.  Total earnings from operation of road.  Total earnings from operation of road.  Total earnings from operation of road.	\$3,436 80 \$28 85 569 31 \$1 12 170 04 30,758 26 691 27 \$2 46 1,233 80 1,403 84 2 80 118 25	31,449 58 \$35,783 99 35,902 24 \$35,902 24 1,406 81
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails  Total passenger department earnings.  Per train mile  Per mile of road.  Main line and branches:  Local traffic  Through traffic  Total freight department earnings.  Per train mile  Per mile of road  Total transportation earnings, entire line  Transportation earnings per mile of road.  Transportation earnings per train mile  Miscellaneous receipts from operating account, other than for transportation: From telegraph companies  Total earnings from operation of road.  Total earnings per mile of road  Total earnings per mile of road  Total earnings per mile of road  Total earnings per mile of road  Total earnings per mile of road  Total earnings per mile of road  Total earnings per train mile	\$3,436 80 \$28 85 569 31 \$1 12 170 04 30,758 26 691 27 	31,449 58 \$35,783 99 \$5,902 24 \$35,902 24 1,406 51 2 81

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

WALKIERS OF WAL END BISCOLUZED.		
Repairs of roadway		\$2,282 84 20 94
Total	-	\$2,303 28
MAINTENANCE OF EQUIPMENT.	2	
Superintendence		\$64.95
Repairs and renewals of locomotives Repairs and renewals of freight care		233 16
Repairs and recewals of freight cars		787 98
Stationery and printing		20 93
Total		\$1,056 97
10101		41,000 51
CONDUCTING TRANSPORTATION.	;	
		** *** **
Engine and roundhouse men		\$3,248 28
Fuel for locomotives Oil, tallow and waste for locomotives		1,981 17
Oil, tallow and waste for locomotives		42 79
Train service		2,909 22
Train supplies and expenses		104 48
Train supplies and expenses Telegraph expenses		568 42
Station service		2.188 08
Station supplies		159 22
Switching charges—balance		2,096 59
Switching charges—balance Car mileage—balance Cr.		583 87
Loss and damage		58 12
Ayor and wallings.		
Stationery and printing. Other expenses		64 11
Order expenses		60 12
m 4.3	•	010 007 10
Total		\$12,897 13
	-	
GENERAL EXPENSES.		
Salaries of general officers		\$1,780 00
Salaries of clerks and attendants		108 83
General office expenses and aupplies		108 83 26 01
General office expenses and supplies Stationery and printing (general offices)		88 20
Services (Services Services Se	· · · · · · · · · · · · · · · · · · ·	
Total		\$2,003 04
	•	
	er cent of	
91	penses.	
91		\$2,303 28
Maintenance of way and structures	12.61 5.79	\$2,303 28 1,056 97
Maintenance of way and structures	12.61 5.79	\$2,303 28 1,056 97 12,597 13
Maintenance of way and structures	12.61 5.79 70.63	\$2,308 28 1,056 97 12,597 13 2,008 04
Maintenance of way and structures	12.61 5.79	\$2,308 28 1,056 97 12,897 13 2,008 04
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes	12.61 5.79 70.63	\$2,308 28 1,056 97 12,697 13 2,008 04 \$18,260 42
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	12.61 5.79 70.63 10.97	12,897 13 2,008 04
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	12.61 5.79 70.63 10.97	1,056 97 12,897 13 2,003 04 \$18,260 42 \$716 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	12.61 5.79 70.63 10.97	12,897 13 2,003 04 \$18,280 42
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79	12.61 5.79 70.63 10.97 100.00	1,056 97 12,897 13 2,003 04 \$18,260 42 \$716 38 1 43
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	12.61 5.79 70.63 10.97 100.00	1,056 97 12,897 13 2,003 04 \$18,260 42 \$716 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan	12.61 5.79 70.63 10.97 100.00	1,056 97 12,897 13 2,003 04 \$18,260 42 \$716 38 1 43
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,38%.	12.61 5.79 70.63 10.97 100.00	12,597 13 2,003 04 \$18,260 42 \$716 38 1 43 \$18,260 42
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,38%.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,38%.	12.61 5.79 70.63 10.97 100.00	12,597 13 2,003 04 \$18,260 42 \$716 38 1 43 \$18,260 42
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,38%.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road Net earnings per train mile	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,38%.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$716 38 1 43 \$18,280 42
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,003 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.	12.61 5.79 70.63 10.97 100.00	\$18,280 42 \$18,280 42 \$716 38 1 43 \$18,280 42 \$716 38 1 43 \$18,280 42
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road. Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,003 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell Total length completed.	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length completed  Total length of road belonging to this company in Michigan	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,260 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length completed  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length completed  Total length of road belonging to this company in Michigan	12.61 5.79 70.63 10.97 100.00	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,260 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	12.61 5.79 70.63 10.97 100.00 0 miles.	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,260 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length completed.  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, computed a	12.61 5.79 70.63 10.97 100.00 0 miles.	\$12,697 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11 1 38 Miles. 25.49
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	12.61 5.79 70.63 10.97 100.00 0 miles.	\$12,597 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,260 42 \$692 11 1 38
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,79  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length completed.  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, computed a	12.61 5.79 70.63 10.97 100.00 0 miles.	\$12,697 13 2,008 04 \$18,280 42 \$716 38 1 43 \$18,280 42 \$892 11 1 38 Miles. 25.49

•				
If north of parallel 44 of latitude? Yes.				
Give date road commenced to be b August 6, 1895.	wilt:			
Give date road completed: December, 1896.				
Give date road commenced to be of January 15, 1896.	perated:			
Where built from and to: From Munising, Mich., to Mitche	ell, Mich.			
Give exact number of miles:				
25.49 miles. Numb	er of bridges and trestle	s in Michigan.		Aggregate
		_	Number. l	ength, feet.
Wooden bridges			8 5	456 2,553
Total	···		13	8,009
	Crossings.—Railroad and	i hiahway.		
	-	•		
What railroads cross your road eit Over:			and where:	
Duluth, South Shore & Atlanti	c R'y, at Munising Junct	ion, Mich.		
Number of crossings of highways	it grade in this State			4
Have safety guards been erected a No,—21 feet high.	t overhead obstructions?	1		
Are your frogs and guard rails block Yes.	sked as required by act 1	74, session laws of	18887	
How are they treated? Filled in with wooden blocks.	CM mAZ au a			
Number of stations on whole lines	Stations.			3
	Employés.			
Number of persons regularly emofficials				46
Classify your employés as per follo	wing list:			Number.
Brakemen			••••	6
Conductors Engineers				8 3 3
FiremenLaborers				
ShopmenOthers				2 14
	REPAIRS AND RENEV	WALB.		
	Fencing in Michig	an.		
Give the number of miles require counties in which needed: Alger county	d to complete fence both	a sides of your tre	ock in Michig	an, and the 50.98
	Road bed and tra			
Number of track sections in Michi Average lengths of sections, miles	gan			3. 8.47
Average number of men in each see	ction gang			5.
New bridges built during the year	; Number 2.			
Location.	Kind.	Material.	Month built.	Feet in length.
Au Train River	Howe truss	Wood	April, 1896 June, 1896	56 112
	1	1	1	l

#### ROLLING STOCK

ROLLING BIOCK.		
	P	resent esti-
	Number. m	ated value.
Number of locomatives of more than 30 tons weight, exclusive of tender	. 1	\$23,500 00 1,800 00
Number of platform cars	145	57,000 00
Number of conductors' way cars	2	1,200 00
Other cars as follows: Russell logging cars	. 50	8,000 00
<b>-</b>	400	
Total	198	\$91,500 00
	===	
Number of locomotives equipped with power brakes		8
Number of passenger-train cars equipped with power brakes.		Ĭ
Number of freight cars equipped with power brakes.		135
What patterns of power brakes have you in use, and number of locomotives and 2 locomotives Westinghouse; 1 locomotive steam brake; 135 platform cars Westinghouse.	cars with ea estinghouse	ch? ; 1 passen-
Are your freight cars being equipped with automatic couplers as required by a of 1885, as amended by act No. 88, session laws of 1887? Yes.	et No. 147, s	esion laws
What pattern or patterns have you adopted for use? Tower.		
How are your passenger cars heated? Stoves.		

# MILEAGE, TRAFFIC, ETC.

Train mileage.			ln Michigan.
Miles run by freight trains during the year Miles run by mixed trains			
Total mileage of trains earning revenue			12,790
Passenger traffic.—Road all in State of	Michigan.		
Number of local passengers carried, earning revenue	Numbers. 11,552	Miles	Rate.
Total number of passengers carried, earning revenue	11,552		
Number of passengers carried one mile	86,808	7.8	
Average amount received from each passenger Average receipts per mile for local passengers. Average receipts per passenger per mile for all passengers.			03.9
Freight traffic.—Road all in State of M	ichigan. Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	1,636 77,006	MI 1106.	Baw.
Total tons of freight carried, earning revenue	78,642		
Total mileage of through freight Total mileage of local freight		9,816 958,576	
Total freight mileage or tons carried one mile		968,392	2
Average ton haul for through freight		124,481	
Average ton haul for all freight		123,139	)
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight		······	. 07

#### FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture: Grain	80	887	417	.58
Flour Other mill products		813 116	313 116	.40 .15
Hay Fruit and vegetables	52	507	559	.71
Fruit and vegetables		48 160	43 160	.05 .20
Products of animals:				
Drasaed meats	106		106	.14
Other packing house products	1	47	47	.06
Hides and leather		56	56	.07
Products of mines: Anthracite coal	1,187	65 449	65 1,636	.08 2.08
	1,101	110	1,000	2.00
Products of forest:		4 000		
Lumber Logs		4,601 7,081	5,866 62,200	6.82 79.00
Shiogles	10	188	198	.24
Tan bark		896	896	1.14
Manufactures:	1			
Petroleum and other oils		12	12	.02
Castings and machinery	52	1.790	1,841	2.84
Cement, brick and lime	1,44	1,251	2,695	8.42
Wagons, carriages, tools, etc		12	12	.02
Wines, liquors and beers.		484 195	484	.55
Household goods and furniture	413	193	195 418	. <b>25</b> .58
Merchandise	281	586	887	1.10
Total tonnage	59,559	19,088	78,642	100

# ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Co
The Munising Railway receives 5 cents on all packages less than 30 lbs. weight, 15 cents per 100 lbs. on all packages over 30 lbs. in weight. Take their freight at railway depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 18 miles; belongs to the Western Union Telegraph Co.

#### Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
St. Paul Refrigerator Car Co.  Hammond Refrigerator Line.  Swift Refrigerator Line.  Canadian Pacific Despatch St. Louis Refrigerator Car Co.  Union Refrigerator Line  Merchants' Despatch Transportation Co.	Chicago, Ill.  Boston, Mass.  St. Loris Mo	1 45

STATE OF MICHIGAN, } ss.

E. H. Scott, general manager, and H. A. St. John, Auditor, of the Munising Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

E. H. SCOTT,

General Manager.
H. A. ST. JOHN,

Auditor.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

[L. S.]

CLAUDE M. CASE,

Notary Public, Luce County, Michigan.

#### ANNUAL REPORT

#### OF THE

# PONTIAC, OXFORD & NORTHERN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 23, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, HUGH PORTER, New York City.

Vice President, GEO. W. DEBEVOISE, New York City.

Secretary, WM. H. MURPHY, New York City.

Auditor, F. H. CARROLL, Pontiac, Mich.

Treasurer, HUGH PORTER, New York City.

General Superintendent, W. C. SANFORD, Pontiac, Mich.

Cashier, F. R. BOYD, JB., Pontiac, Mich.

General Passenger and Freight Agent, W. C. SANFORD, Pontiac, Mich.

Attorney, AUG. C. BALDWIN, Pontiac, Mich.

#### DIRECTORS.

HUGH PORTER, New York City.
GEO. W. DEBEVOISE, New York City.
L. A. HALE, New York City.
WM. H. MURPHY, New York City.
HENRY A. O'BRIEN, New York City.
A. C. BALDWIN, Pontiac, Mich.
W. C. SANFOED, Pontiac, Mich.
Terms expire Sept. 22, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 24, 1889.

Number of stockholders at data of last election: 8.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date. \$2,000.00.

Date of annual meeting of stockholders: First Wednesday after the third Monday in September.

General offices of the company are located at Pontiac, Mich.

Total earnings from operation   \$119,692 50	GENERAL EXHIBIT.	Debit.	Credit.
Net income	Total earnings from operation	\$81,181 21	\$119,692 58
Balance applicable to dividends			\$38,511 32
Dividends declared (8 per cent) \$30,000 00  Ralance for the year \$2,234 64	Interest on funded debt	5,256 68	
Balance for the year \$8,254 66	Balance applicable to dividends.  Dividends declared (8 per cent)	\$30,000 00	\$38,254 64
Release (neofit and loss) last year	Balance for the year		\$8,254 64 9,121 03
Balance (profit and loss) last year 9,121 00 Miscellaneous income account, debits 8,768 92 Balance forward to next year 8,606 75	Miscellaneous income account, debits. Balance forward to next year	8,768 92 8,606 75	9,121 00
\$12,875 67		\$12,875 67	\$12,375 67

#### ANALYSIS OF CAPITAL STOCK.

•	ANALYSI	S OF CA	PITAL STOCK.		
Amount authorized by charter or a Par value of shares No. of shares issued Amount paid in on common	rticles of	associati	on 10,000	\$100	\$1,000,000 00
					-
Total amount paid in, as per b		_	-		
Paid in per mile of road owned by	company	(100 miles	)		10,000 00
	ANALYSI	S OF DE	BT ACCOUNTS.		
		FUNDED 1	DEBT.		
Class, character and date of i	.e.rs	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds		6%	Jan. and July .		\$186,000 00
	1	UNFUNDED	DEBT.		
For what incurred.	Is ti	he same to	be funded or ho	w liquidated?	Amount.
For miscellaneous					\$28,002 01 1,219 16
Total unfunded debt					\$24,221 17
		BCAPITUI	ATION.		_
Total funded debt			•••••		\$136,000 00 24,221 17
Total unfunded debt  Total debt liabilities					\$160,221 17
Amount of debt liabilities per mile Total amount of stock and debt Stock and debt per mile of road, 10	of road,	100 miles.			1,602 21 1,160,221 17
<b>G</b>	ENERAL	BALANC	E SHEET.—Dr.		
Construction account Equipment account					\$894,339 73 118,845 55
Cash items: Cash Due from agents				\$184,841 11 5,867 79	
Other assets:  Materials and supplies  Debit balances from companies					140,208 90
Total	•				10,488 74
G	ENERAL	BALAN(	E SHEET,—Cr.		
Capital stockFunded debt					\$1,000,000 00 186,000 00
Unfunded debt: Vouchers and accounts Profit and loss or income account	ite				24,221 17 8,606 75

# COST OF ROAD AND EQUIPMENT.

# Purchased by present company.

When purchased: Sept. 24, 1889. Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment Total cost to date of report Average cost per mile of road (not including sidings), 100 miles		\$1,000,000 00 4,839 73 8,345 55 1,013,185 28 10,131 85
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
Main line:		
Extensions and new sidings		200 00 125 17
ANALYSIS OF EARNINGS ROAD ALL IN STATE OF MIC	CHIGAN.	
PASSENGER BARNINGS.		
Main line and branches: Local fares	\$38,471 78 981 26	i i
Total passenger fares.	\$84,408 04	
Express and baggage Mails Other sources	2,171 22 7,668 04 12 00	
Total passenger department earnings		\$44,249 30
Per mile of road	\$0 55 442 49	
FREIGHT BARNINGS.		
Main line and branches:		
Local traffic	\$72,164 56 8,122 67	:
Total traffic	\$75,287 28	<u> </u>
Total freight department earnings		75 <b>,28</b> 7 23
Per train mile	<b>\$</b> 0 89 752 87	
Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile	1,195 36 72.56	\$119,586 58
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From rents of tracks, yards and terminals.  From rents not otherwise provided for	120 00 36 00	
Total		156 00
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Total taxable earnings per mile of road in Michigan	\$1,196 92 72.65 1,196 92	\$119,692 58
Total income from all sources		119,692 58
•		

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway. Renewal of rails.		\$18,974 45 19 64 8 657 90
Repears of rails.  Renewal of rails.  Renewals of ties.  Repairs and renewals of bridges and culverts  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of telegraph.		8,657 90 1,165 22 774 42 870 28
Repairs and renewals of buildings and fixtures  Repairs and renewals of telegraph  Stationery and printing		98 06 11 00
Total		\$25,570 92
MAINTENANCE OF EQUIPMENT.		
Superintendence Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars. Stationery and printing. Other expenses.		\$1,219 54 3,417 86 555 99 1,626 49 36 31 11 00 76 01
Total		\$6,943 20
CONDUCTING TRANSPORTATION.		
Superintendence.		\$1,000 00
Engine and roundhouse men.	•••••	8,096 36
Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives		606 28 719 92 43 30
Other supplies for locomotives		43 30 5,787 <b>69</b>
Train service Train supplies and expenses Telegraph expenses Station service		1.072 69
Telegraph expenses	• • • • • • • • • • • • • • • • • • • •	2,454 46 6,173 86 367 29
Station supplies		367 29
Car mileage—halance		1,811 38 281 80 79 05
Loss and damage		79 05
Advertising		90 75 283 04
Onteide agencies. Stationery and printing.		792 58
Total		\$38,485 80
General Expenses.		
Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies. Law expenses Stationery and printing (general offices) Other expenses.		\$2,500 00
Salaries of clerks and attendants.		2,764 79 706 22
Law expenses		1.281 50
Other expenses		201 25 333 66
Taxes		2,393 87
Total		\$10,181 29
A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
RECAPITULATION OF EXPENSES.	Per cent of	
Walatanana ah man and atamatana	expenses.	*** *** **
Maintenance of way and structures.  Maintenance of equipment.	81.50 8.55	\$25,570 92 6,943 20
Conducting transportation General expenses, including taxes.	47.41	6,943 20 38,485 80 10,181 29
General expenses, including taxes	12.54	10,181 29
Total operating expenses and taxes	100	\$81,181 21
Operating expenses and taxes per mile of road		\$811 81
Uperating expenses and taxes per train mile run, for trains, earning revenue, 164,735 miles	\$0 49.28	
Total proportion of expenses for Michigan		\$81,181 21
		•
Percentage of expenses to earnings Net earnings per mile of road Ret earnings per train mile		385 11
Met earnings per train mile		23.37

# DESCRIPTION OF BOAD.

Date when the road was opened for use between its present termini: From Pontiac, Mich., to Caseville, Mich., October 8, 1883.

MAIN LINE.	Miles.	Miles.
In Michigan, from Pontiac to Caseville		100.59
Total length completed		100.59
Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above	100.59	
enumerated Aggregate length of tracks in Michigan belonging to this company, comput- track		108.20
Gauge of track, 4 feet 8½ inches.		
Number of bridges and trestles in Michigan.		Aggregate
Wooden bridges	Number. L	ength, feet. 1,370
Total	27	1,870
		<del></del>
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? Michigan Central R. R. at Oxford. Flint & Pere Marquette B. B. at Clifford. Saginaw, Tuscola & Huron R. R. at Pigeon.		
What railroads cross your road either over or under your grade in this State, s Over— Chicago & Grand Trunk B. R. at Imlay City.	and where?	
At what crossings are interlocking and derailing switches in operation?  Oxford.		
What pattern or patterns have you adopted? Saxby & Farmer, lever machine, made by Union Switch & Signal Co.		
Number of crossings of highways at grade in this State		107
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by Act 174, Session Laws of Yes.	18837	
How are they treated?  Space between rails fitted with wood blocking.		
Stations.		
Number of stations on whole lines		22 22
Employ és.		
Number of persons regularly employed on all roads operated by company, included in Michigan)	iding officials	100
Classify your employés as per following list:		Number.
Baggagemen		2
Brakemen Conductors		4 8 8 8
EngineersFiremen		<b>8</b> 8
Laborers		82 17
Shopmen Others		36
		100

REPAIRS AND RENEWALS.		
Fencing in Michigan.		
How many miles of fencing have you		194.1
and the counties in which needed: Tuscola county Huron county		.4 5.5
Road bed and track.		
Number of track sections in Michigan		16:
Average length of sections (miles). Average number of men in each section gang Number of new ties put in track in Michigan. Average number of new ties per mile of road.	6.26	2 35,238
Average number of new ties per mile of road	802.88	
Bridges and culverts.		
Amount of treetle work replaced with earth during the year, linear feet	•	120
BOLLING STOCK.		Present esti-
Number of locomotives of more than 30 tons weight, exclusive of tender Number of locomotives of 20 to 30 tons weight, exclusive of tender	8	\$24,345 55 18,000 00
Total	6	
Number of passenger cars—8-wheel, including official cars	7	\$31,500 00
Number of express and baggage cars Number of box freight cars	1 46	2,500 00 18,800 00
Number of stock cars	4 61	1,500 00 21,750 00
Number of conductors' way cars	ĭ	450 00
Total	120	\$76,500 00
Number of locomotives equipped with power brakes		<b>6</b> 8
What patterns of power brakes have you in use, and number of locomotives an Westinghouse automatic air brake, 8 cars, four locomotives; New York automotive; Eames vacuum driver brake, 1 locomotive.	d cars with e natic air br	ach? ake, 1 loco-
Are your freight cars being equipped with automatic couplers as required by a of 1885, as amended by act No. 88, session laws of 1887? Yes.	ct No. 147, s	ession lawa
What pattern or patterns have you adopted for use? Hinson.		
How are your passenger cars heated?  Hot water circulation. Mason anti-fire heaters.		
MILBAGE, TRAFFIC, ETC.		
Train mileage.	τ.	n Michigan.
Miles run by passenger trains during the year		65,193
Miles run by freight trains during the year		38,242 61,300
Total mileage of trains earning revenue		164,735
Passenger traffic.—In State of Michigan.		
Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue 499 Number of local passengers carried, earning revenue 61,251		
Total number of passengers carried, earning revenue 61,750		
Number of passengers carried one mile	22.1	
Average amount received from each passenger.  Average receipts per mile for through passengers.		\$0 55.7 01.89
Average receipts per mile for local passengers. Average receipts per mile for local passengers.		02 53.
**************************************		02.51

# Freight traffic.—In State of Michigan.

• •	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	2,851 83,741		
Total tons of freight carried, earning revenue	86,092		
Total mileage of through freight		92.1 31.8	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.			\$0 87.4 01.44 02.71 02.61

## FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

## Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commonity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain Flour	12,676 123	108	12,676   226	14.78 .26
Hav		108	9,730	11.80
Hay Fruit aud vegetables.	5,849	14	5,868 9,639	6.28
Potatoes	9,639		9,039	11.21
Products of animals:	0.000	400	0.500	4 40
Live stock Poultry, game and fish	3,686 293	102	8,788 292	4.40
Wool.	106	11	117	.14
Products of mines:				
Anthracite coal		8,271	3,271	3.80
Bituminous coal Stone, sand, and other like articles		8,272	8,272	9.61
Stone, sand, and other like articles	390	46 885	46   775	.05 .90
		960	'''	. 50
Products of forest:	8.934	2,854	11.788	10.00
Lumber Logs	1 010	2,504	1.019	18. <b>69</b> 1.18
Shingles, staves and barrels	3,180	879	8,509	4.08
Manufactures:				
Petroleum and other oils		152	152	.18
Sugar	170	65 109	65 279	.07 .82
Iron, pig, bloom and scrap Other castings and machinery	170	109	150	.82 .17
Cement, brick and lime	125	1,560	1,685	1.95
Agricultural implements	l	10	10	.01
Wagons, carriages, tools, etc.	1,830	300	2,130	2.47
Wines, liquors and beers	118	36 58	36 176	.04 .21
Merchandise	ł			
	4,228	5,731	9,954	11.56
Miscellaneous: Other commodities not mentioned above	369	575	944	1.10
Total tonnage	61,879	24,213	86,092	100

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them; and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

One and one-half and one and one-tenth first class freight rates and one-half fare for messengers.

General express business. Take their freighte at depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

One hundred miles.

Owned jointly by P., O. & N. B. R. Co. and Western Union Telegraph Co.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR, 1896.

#### KILLED.

December 21, 1896, Lea Kelly, baggageman, Wilmot. Fell from side door of baggage car while train was standing at Wilmot, receiving injuries from which he died Dec. 23, 1896.

#### INJURED.

June 10, 1896, Lea Kelly, baggageman, Pontiac. Loss of first two joints of index finger of right hand; coupling cars.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Comment and another t	Killed.			Injured.		
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Coupling carsFalling from trains.		i			1	
Total		1			1	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.  Number of persons injured during the year.  Number of casualties purely accidental.  Number resulting from lack of caution, carelessness, or misconduct	

# CLASSIFICATION OF EMPLOYÉS.

## KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen	1	1	2
Total	1	1	2

STATE OF MICHIGAN, Sc. COUNTY OF OAKLAND,

W. C. Sanford, general superintendent, and F. H. Carroll, auditor, of the Pontias, Oxford & Northern Bailway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. of R. B.]

Signed,

W. C. SANFORD, F. H. CARBOLL.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

TL. 8.1

WILL F. NORTH,
Notary Public, Oakland Co.

### ANNUAL REPORT

OF THE

# SAGINAW, TUSCOLA & HURON RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed January 25, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WILLIAM L. WEBBER, Saginaw, E. S., Mich. Vice President, GEORGE W. MORLEY, Saginaw, E. S., Mich. Secretary, SAMUEL G. HIGGINS, Saginaw, E. S., Mich. Auditor, LOUIS F. OHLAND, Saginaw, E. S., Mich. Treasurer, WILLIAM H. HART, Saginaw, E. S., Mich. General Manager, WILLIAM L. WEBBER, Saginaw, E. S., Mich. Superintendent, WILLIAM H. WALLACE, Saginaw, E. S., Mich. Freight and Ticket Agent, WM. B. ROSEVEAR, Saginaw, E. S., Mich.

#### DIRECTORS.

WILLIAM L. WEBBER, Saginaw, E. S., Mich. GROEGE W. MORLEY, Saginaw, E. S., Mich. JAMES B. PETER, Saginaw, E. S., Mich. JOHN S. ESTABROOK, Saginaw, E. S., Mich. SAMUEL G. HIGGINS, Saginaw, E. S., Mich. ISAAC BEARINGER, Saginaw, E. S., Mich. Terms expire May 21, 1897.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 24, 1881.

Number of stockholders at date of last election: 123.

Number of stockholders in Michigan at same date: 118.

Amount of full paid stock held in Michigan at same date: \$60.800.

Date of annual meeting of stockholders: Third Thursday of May each year.

Fiscal year of company ends December 31.

General offices of the company are located at Saginaw, E. S., Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total apprings from operation		8110,708 49
Total earnings from operation	\$91,566 44	4110,100 25
Net income		\$19,187 05
Interest on unfunded debt	\$68,548 08 49,411 08	
Balance, profit and loss last year	209,916 14	
Credit	<b>84,408 43</b>	
Balance forward to next year		263,780 60

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association. Par value of shares	<b>\$</b> 600,000 00
Amount paid in on common.       \$123,300 00         Amount paid in on chares not issued (number), 15.       255 38	
Total amount paid in, as per book of the company	123,555 38
Paid in per mile of road owned by company, 66.57	1,856 02

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

\$1,000,000.00 first mortgage, 40 years 5 per cent bonds authorised to be issued to the Continental Trust Company of New York as trustee. Said bonds have not been sold, but are pledged as collateral security for advances made account of construction and equipment of the road. Date of issue September 1, 1891.

The advances for which issued as above, are shown below under unfunded debt and the bonds are not treated as a funded debt on the books of this company.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquid	dated.	Amount	i.
For equipment For real estate For miscellaneous			\$715,290 50,059 54,287 434,448 8,254	59 79 08
Total unfunded debt			\$1,263,835	22
	RECAPITULATION.			
Total unfunded debt			\$1,262,335	22
Total debt liabilities			\$1,262,385	22
Total amount of stock and debt	of road, 66.57 miles		1,885,890	- 60
Construction account	RNERAL BALANCE SHEET.—Dr.	\$760,573 84 219,888 92		
Other investments (specifying same		210,000 02		
Bay Port hotel and grounds Bay Port quarries	\$49,847 19 59,855 18	125,200 00		
Cash items:			\$1,105,662	76
Bills receivable		\$3,769 59 1,275 54 1,307 38	6,852	40
Other assets:			0,002	20
Materials and supplies	nd individuals		10,144	78
D44 3 loss				
			263,780	_

# GENERAL BALANCE SHEET.-CB.

GENERALI DELIANCE SILEEL.—VE.		
Capital stock, amount paid in	· · · · · · · · · · · · · · · · · · ·	\$123,555 38
Unfunded debt:		
Vouchers and accounts	\$5,406 81	
Other liabilities:		
Co's and Ind'ls account, traffic       \$633 37         Co's and Ind'ls account, equipment       28,890 75         Treasurer State of Michigan, taxes 1896       2,214 7         Unclaimed wages       312 74         Miscellaneous accounts       20 00         Advances made, account construction and equipment and interest on same to and including December 31, 1896       1,225,357 47	1,256,928 41	4 000 007 00
		1,263,385 22
Total		\$1,385,890 60
COST OF BOAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches buil	t by compan	y.
Total expended for construction and equipment Average cost per mile of road (not including sidings) 66.57 miles Proportion of cost for Michigan		\$980,462 76 14,728 29 980,462 76
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Extensions and new sidings		\$162 68
New locomotives. Land and land damages		9,233 08 7,250 00 6,370 58
Total charges.		\$23,016 29
Total charges to property account as above		23,016 29 1,383 75 21,632 54
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MIC	CHIGAN.	
Main line and branches:	****	
Local fares Through fares	\$30,196 88 5,630 65	
Total passenger fares	\$35,827 53	
Express and baggage	7 <i>2</i> 7 14 5,178 28	
Total passenger department earnings		\$41,782 90
Per train mile	\$0 48 626 90	
PREIGHT BARNINGS.		
Main line and branches:  Local traffic Through traffic	\$50,096 92 18,253 71	
Total traffic	\$68,350 63	
Total freight department earnings		\$68,350 <b>63</b>
Per train mile	1 60	<del>,000,000 00</del>
Per mile of road	1,026 75	0110 000 10
Total transportation earnings, entire line		\$110,083 58
Transportation earnings per mile of road	\$1,653 65 85	

Miscellaneous receipts from operating account, other than for transporta- tion, as follows:	
From telegraph	
Total	<b>\$</b> 619 <b>9</b> 6
Total earnings from operation of road	•
Total earnings per mile of road	842 82 ⁻
Total income from all sources Proportion of income for Michigan	\$111,546 31 111,546 81
ANALYSIS OF EXPENSES.	
MAINTENANGE OF WAY AND STRUCTURES.	
Repairs of roadway Renewals of ties Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves. Repairs and renewals of telegraph Stationery and printing Other expenses.	\$11,967 01 10,075 78 1,085 18 453 24 1,648 99- 242 86 101 75 17 00 861 57
Total	\$25,933 38
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of reight cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses  Total	\$1,020 00 7,732 41 2,665 84 2,097 18 242 58 11 40 540 00
10441	\$14,312 41
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men Fuel for locomotives.  Water supply for locomotives. Oil, tallow and waste for locomotives. Other supplies for locomotives. Train service. Train service. Switchmen, flagmen and watchmen. Telegraph expenses. Station service. Station service. Station supplies Coar mileage—Balance. Loss and damage Advertising. Outside agencies. Rents for tracks, yards and terminals. Stationery and printing. Other expenses.	\$1,805 50- 7,829 61 8,421 11 4470 93 419 23 94 63 6,668 82 922 14 227 01 2,556 24 4,556 79 3.0 28 705 22 112 88 1,337 70 106 17 1,200 00 833 61 31 95
GENERAL EXPENSES.	
Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Law expenses Stationery and printing (general offices). Other expenses Taxes.  Total	\$5,216 65 2,799 67 198 02 1,212 22 269 12 306 87 72 50 2,777 78

#### RECAPITULATION OF EXPENSES.

RECAPITULATION OF EXPENSES.		
	Per cent of expenses.	
Maintenance of way and structures	28.34	\$25,958 38
Maintenance of equipment	15.68	14,812 41
Conducting transportation	41.99	88,449 82
General expenses, including taxes.	14.04	12,850 &8
Total operating expenses and taxes.	100.00	\$91,566 44
Operating expenses and taxes per mile of road		\$1,375 49
Operating expenses and taxes per train mile run, for trains earning revenue, 130.143 miles		70
Total proportion of expenses for Michigan		91,566 44
Percentage of expenses to earnings  Net earnings per mile of road	82.71	287 47
Net earnings per train mile		15
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini:		
Saginaw to Sebewaing, April 4, 1882. Sebewaing to Bay Port, June 15, 1884. Bay Port to Bad Axe, July 1, 1886.		
MAIN LINE.		
	Miles.	Miles.
In Michigan, from Saginaw to Bad Axe		64.38
BRANCHES.		
Bay Port from Bay Port Junction to Bay Port.	1.88	
Quarry from Quarry Junction to Quarry	.81	
Total length of branches owned by company	2.19	2.19
Total length of road belonging to this company  Total length of road belonging to this company  Total length of road belonging to this company in Michigan	66.57	2.10
Total length of road belonging to this company in Michigan	• • • • • • • • • • • • • • • • • • • •	66.57
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	15.76	
Aggregate length of tracks in Michigan belonging to this company, comput	ed as single	
track		82.83
Command track A fact 91/ Inches		
Gauge of track, 4 feet 8½ inches.		

Number of bridges and trestles in Michigan.		
	ımbaı	Aggregate Length, feet.
	10 10	
Wooden bridges Iron bridges	12	576 77
Total	13	658

## Draw bridges in Michigan.

How many on your line? One.

Where located, when built and length of draw span? Sebewaing; 1891; 35 feet.

Character of structure? Swing span on table pier.

Material of which constructed.

Height above water, and depth of water under bridge. 7 feet above water; 7 feet deep.

How swung, by engine or hand power? Hand.

Approaches straight or curved? Straight.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled? Yes, during season of navigation. Signaled by flag during day and lamp at night.

# ${\it Crossings.} - {\it Railroad} \ and \ highway.$

What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Saginaw, E. S., Michigan. Michigan Central B. R. at Reese, Michigan. Pontiac, Oxford & Northern B. R. at Pigeon, Michigan.	
Number of crossings of highways at grade in this State	88 en 4
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1883? Yes.	
How are they treated? Substantially blocked with wood.	
Stations.	
Number of stations on whole lines	17
$Employ \acute{e}a.$	
Linpoyes.	
Number of persons regularly employed on all roads operated by company, including officia	ls 97
Classify your employés as per following list:	Number.
Baggagemen	2
Brakemen	
Conductors Engineers	4 5
Firemen	5
Laborers	31
ShopmenOthers	18 28
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you: 133.14 miles.	
Road bed and track.	
	11
Number of track sections in Michigan	. 11
Number of track sections in Michigan	R
Number of track sections in Michigan	R
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of mon in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in Track in Michigan	6 8 39,588 39,583
Number of track sections in Michigan	6 8 39,588 39,583
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of mon in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in Track in Michigan	6 8 39,588 39,583
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.	6 8 39,588 39,583
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:	6 39,588 39,588 595
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.	6 39,588 39,588 595
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.	6 39,583 39,583 39,583 595 ——————————————————————————————————
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.	6 39,583 39,583 595 595 — 16 — — — — — — — — — — — — — — — — —
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.	6 8 39,583 39,583 39,583 595 — 16 — — 16 — — — — — — — — — — — — — —
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.	9 16 Present esti- r. mated value.
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total.	6 39,583 39,583 39,583 595 16 16 16 16 16 16 16 16 16 16 16 16 16
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total.	6 39,583 39,583 39,583 595 16 16 16 16 16 16 16 16 16 16 16 16 16
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total.  Number of passenger cars—8-wheel, including official cars.  Number of express and baggage care.  Number of box freight care.	6 39,588 39,588 39,588 595 595 595 595 595 595 595 595 595
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total.  Number of passenger cars—8-wheel, including official cars.  Number of box freight cars.  Number of pox freight cars.  Number of pox freight cars.	Present estir. mated value.  9
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  BOLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total.  Number of passenger cars—8-wheel, including official cars.  Number of express and baggage cars.  Number of platform cars.  Number of platform cars  Number of conductors' way cars.	Present estir. mated value.  9
Number of track sections in Michigan  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road.   Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total.  Number of passenger cars—8-wheel, including official cars.  Number of express and baggage care.  Number of patform cars  Number of patform cars  Number of conductors way cars.  Other cars as follows: Coal.	Present esti- r. mated value.  9 10 \$\$1,250.00 18 \$\$24,000.00 3 4,500.00 25 7,500.00 95 19,000.00 3 1,000.00

North and become the control of the proper backet			10
Number of locomotive equipped with power brakes Number of passenger-train cars equipped with power brakes			16
What patterns of power brakes have you in use, and number of low Westinghouse automatic, used on all equipment having power br	omotives and	d cars with	each?
Are your freight cars being equipped with automatic couplers as re 1885, as amended by act No. 88, session laws of 1887? Yes.	quired by act	No. 147, se	ession laws of
What pattern or patterns have you adopted for use? Thurmond and Hinson.			
How are your passenger cars heated? By steam from locomotive.			
MILEAGE, TRAFFIC, ETC.			
Train mileage.			
Wiles onn hy necesarger trains during the year			In Michigan, 87,366
Miles run by passenger trains during the year			42,773
Total mileage of trains earning revenue			130,143
Passenger traffic.—Road all in State of 1	lichigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	6,084 55,850		
Total number of passengers carried earning revenue	61,884		
Number of passengers carried one mile	1,658,173	26,7124	<u> </u>
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			\$0 57.894 02.084
Freight traffic.—Road all in State of Mi	cnigan.		
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	28,484 71,782		
Total tons of freight carried, earning revenue	95,266		
Total mileage of through freight		798,210 2,744,075	
Total freight mileage or tons carried one mile	·	3,542,285	
Average ton haul for through freight  Average ton haul for local freight		38.9895 38.2278	
Average ton haul for all freight		37.188	}
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight			01.825

### FREIGHT TRAFFIC MOVEMENT .- ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture: Grain	9,489 8,767 5,120	59 11 3	9,548 3,778 5,128	10,02 3.97 5.38
Products of animals: Live stock	2,432	2	2, <b>484</b>	2.55
Products of minee: Anthracite coal Bituminous coal Stone, sand, and other like articles	307 21,296 22,906	1,670	907 21,296 24,576	. 32 22 . 35 25 . 80
Products of forest: Lumber and shingles Heading and staves Other forest products	4,480 8,694 6,705	40	4,520 8,694 6,705	4.74 9.18 7.04
Miscellaneous: Other commodities not mentioned above	5,679	2,606	8,285	8.70
Total tonnage	90,875	4,891	95,266	100.00

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

- The American Express Co.
   At 1½ first class freight rates.
   General business.
   Freights are delivered to this company on board of express cars at its depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

- 67 miles.
   belongs to the S. T. & H. R. R. Co.

### TRANSPORTATION COMPANIES.

Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report? No cars of this description have been in use on this road during the year.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of Company.	General office.	Amount paid.
Armour Car Line	Chicago, Ill. Boston, Mass. Chicago, Ill. Indianapolis, Ind.	1 38 1 38 1 00 80
Merchants' Despatch Transportation Co	New York City, N. Y Boston, Mass	84 15 16 77 80

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

July 24, Sophia Miller, old woman, Pigeon, Mich. Struck by engine of train No. 2; trespasser.

### INJURED.

June 21, Wm. Gall, laborer, Sebewaing, Mich. Fell in coal shed; leg broken; own carelessness.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Miscellaneous			i		1	
Total			1		1	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year Number of persons injured during the year Number resulting from lack of caution, carelessness, or misconduct	1

## CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Laborers		1	1
Total		1	1

STATE OF MICHIGAN, }88.

W. L. Webber, president, and L. F. Ohland, auditor, of the Saginaw, Tuscola and Huron Bailroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. L. WEBBER, L. F. OHLAND.

Subscribed and sworn to before me this 23d day of January, A. D. 1897. [L. S.]

JOHN W. BILLING, Notary Public.

#### THREE MONTHS' REPORT

OF THE

# SAGINAW VALLEY & ST. LOUIS RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 16, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.
General Manager, CHAS. M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assist-int Superintendent, T. H. MALONE, Ionia, Mich.
Chiaf Engineer, J. J. McVEAN, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, WM. ALDEN SMITH, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIBL THAYER, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
J. A. BURNHAM, Boston, Mass.
C. F. ADAMS, Boston, Mass.
A. H. HAEDY, Boston, Mass.
HY. NEWCOMB, Boston, Mass.
F. H. DAMON, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire July 8, 1896.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 17, 1871.

Number of stockholders at date of last election: 84.

Number of stockholders in Michigan at same date: 66.

Amount of full paid stock held it Michigan at same date: \$25,200.

Date of annual meeting of stockholders: Second Wednesday in July.

Fiscal year of company ends December 31.

General offices of the company are located at Grand Rapids, Mich.

GE	NERAL I	EXHIBIT.		Debit.	Credit.
Total earnings from operation			·	\$16,765 05	\$21,584 81
Net income					\$4,819 76
Interest on funded debt				\$8,920 00 220 50 1,750 00	
Balance for the three months				6,070 74 190,864 97	
Balance forward				\$196,935 71	
ANALYS	IS OF CA	PITAL STOCK.			
Amount authorized by charter or articles of Par value of Pares		2,553	\$100 00	\$255,900 00	-
Amount paid in on shares not issued (numb	oer) 95		·	9,504 01	
Total amount paid in, as per books of t Paid in per mile of road owned by company					264,804 00 7,459 27
raid in per mile of road owned by company	, ээ.эо шп				====
ANALYSI	S OF DE	BT ACCOUNTS.			
	FUNDED :	DEBT.			
Class, character and date of issue.	Rate of Interest.	When due.	Where	payable.	Amount outstanding.
First mortgage bonds	8%	May 1, 1902	New Y	ork City	\$446,000 00
	ı	Į.	i	ı	
	<u> </u>	<u> </u>	<u> </u>		
	UN FUN DED				\$200.881.08
For miscellaneous—to be paid from earning					\$209,881 08
For miscellaneous—to be paid from earning	gs RBCAPITUI	ATION.			
For miscellaneous—to be paid from earning	gs RBCAPITUI	ATION.			\$209,331 08 \$446,000 00 209,331 08
For miscellaneous—to be paid from earning	gs	ATION.			
For miscellaneous—to be paid from earning  Total funded debt.  Total unfunded debt  Total debt liabilities  Amount of debt liabilities per mile of road.	gs	ATION.			\$446,000 00 209,331 08
Total funded debt	gsRECAPITUI	ATION.			\$446,000 00 209,331 08 \$655,331 08 18,480 05 920,135 09
Total funded debt	gs	ATION.		\$605.016 16	\$446,000 00 209,331 08 \$655,381 08 18,460 05 920,135 09 25,919 30
Total funded debt	gs	ATION.			\$446,000 00 209,331 08 \$655,381 08 18,460 05 920,135 09 25,919 30
Total funded debt	85.50 mile	ATION.		\$605.016 16	\$446,000 00 209,331 08 \$655,381 08 18,460 05 920,135 09 25,919 30
Total funded debt	gs	SE SHEET.—Dr.		\$605,016 16 87,037 00	\$446,000 00 209,331 08 \$655,331 08 18,460 05 920,135 09 25,919 30 \$690,053 16
Total funded debt	85.50 mile	ATION.  SESHEET.—Ds.		\$605,016 16 87,037 00 \$1,839 43 838 69 \$5,614 21 24,835 59	\$446,000 00 209,331 08 \$655,331 08 18,480 05 920,135 09 25,919 30 \$690,053 16

# GENERAL BALANCE SHEET.-CR.

GENERAL BALANCE SHEETCz.		
Capital stock Funded debt	\$264,804 01 446,000 00	\$710,804 01
Unfunded debt: Interest unpaid Vouchers and accounts	\$104,066 67 8,142 18	
Other Habilities: Net traffic balances due other companies Saginaw & Grand Rapids R. R	1,465 66 87,1×3 27 58,473 80	209,881 06
Total		\$920,185 09
COST OF ROAD AND EQUIPMENT.		
Total cost for constructio i and equipment of road and branches built	by company	•
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 35.50 miles.  Proportion of cost for Michigan.		\$690,058 16 19,438 12 690,058 16
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	N.	
PASSENGER EARNINGS.		
Main line and branches: Local fares Through fares	\$11,158 40 281 08	
Total passenger fares	\$11,439 48	
Express and baggage	420 00 1,055 40	
Total passenger department earnings		\$12,914 88
Per train mile	\$0 79 286 86	
FREIGHT BARNINGS.		
Main line and branches: Local traffic Through traffic	8,280 78 873 58	
Total traffic	\$8,604.36	
Total freight department earnings	<del></del> _	8,604 86
	\$1 23	•
Per train mile Per mile of road	190 78	
Total transportation earnings, entire lines		\$21,519 24
Transportation earnings per mile of road	477 14 92	
Miscellaneous receipts from operating account, other than for transportation, as follows:  From telegraph companies  From other sources	15 57 50 00	a=
Total		65 57 21,584 81
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	\$478 60 92 21,584 81 478 60	\$21,584 81
Total income from all sources.		21,584 81
		•
Proportion of income for Michigan		21,584 81

## ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

ALIMIARANOS OF WAI AND BIRUCIDADS.		
Penalty of youdway		<b>69</b> 476 48
Repairs of roadway		\$2,476 45
Renewals of rans		180 14
Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of fences, road crossings, signs and cattle guards  Repairs and renewal of buildings and fixtures.  Repairs and renewals of telegraph  Stationery and printing		771 19
Repairs and renewals of bridges and culverts		5 24
Repairs and renewals of fences, road crossings, signs and cattle guards		284 85 115 98
Repairs and renewal of buildings and fixtures		115 98
Repairs and renewals of telegraph		24 15
Stationery and printing		6 58
Total		\$8,814 58
MAINTENANCE OF EQUIPMENT.		
· · · · · · · · · · · · · · · · · · ·		
Superintendence		\$91 87 122 56
Repairs and renewals of locomotives		122 56
Repairs and renewals of passenger cars		122 67
Repairs and renewals of passenger cars	••••••	587 20
Stationery and printing		5 81
Stationery and printing Other expenses		58 31
Value Variable		
Total		\$988 42
A V ***********************************		4400 120
	•	
CONDUCTING TRANSPORTATION.		
Superintendence		\$262 44
Engine and roundhouse men		1,700 21
Fuel for locomotives		1,799 21 2,419 72
Water emply for locomotives		86 14
Water supply for locomotives.  Qil, tallow and waste for locomotives.		75.96
Other supplies for locomotives		92 0
Other supplies for locomotives.  Train service		1 999 70
Train supplies and expenses	••••••	9 88 1,332 79 152 48
Telegraph attaches		438 18
Telegraph expenses Station service Station supplies Car mileage—balance Loss and damage		1,644 76
Obstituti service		1,044 10
Station supplies		162 26 903 88 16 88 13 62
Car mileage—parance		300 00
Loss and damage		10 88
		18 02
Advertising Outside agencies Stock yard and elevators		43 50 638 95
Outside agencies		032 32
Stock yard and elevators		
0		8 67
Stationery and printing		592 20
Stationery and printing Other expenses		592 20 1 00
Stationery and printing Other expenses		592 20
Stationery and printing		592 20
Other expenses  Total		592 20
Stationery and printing Other expenses		592 20
Other expenses.  Total.  GENERAL EXPENSES.		\$10,601 82
Other expenses.  Total  GENERAL EXPENSES.  Salaries of general officers.		\$10,601 82
Other expenses.  Total  GENERAL EXPENSES.  Salaries of general officers.		\$10,601 82
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies		\$10,601 82
Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers		\$10,601 82
Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers		\$10,601 82 \$10,601 82 \$283 60 835 27 29 19 57 27 154 59
Other expenses.  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices)		\$10,601 82 \$10,601 82 \$283 60 \$35 27 29 19 57 27 154 59 49 66
Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses		\$22 20 1 00 \$10,601 82 \$288 60 835 27 29 19 57 27 154 59 49 66 19 51
Other expenses.  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices)		\$10,601 82 \$10,601 82 \$283 60 \$35 27 29 19 57 27 154 59 49 66
Other expenses.  Total.  General expenses.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices). Other expenses.		\$288 60 \$35 27 29 19 57 27 154 59 431 69
Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses		\$22 20 1 00 \$10,601 82 \$288 60 835 27 29 19 57 27 154 59 49 66 19 51
Other expenses.  Total.  General expenses.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices). Other expenses.		\$288 60 \$35 27 29 19 57 27 154 59 431 69
Other expenses.  Total  General officers Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total		\$288 60 \$35 27 29 19 57 27 154 59 431 69
Other expenses.  Total.  General expenses.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices). Other expenses.		\$288 60 \$35 27 29 19 57 27 154 59 431 69
Other expenses.  Total  General officers Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total		\$288 60 \$35 27 29 19 57 27 154 59 431 69
Other expenses.  Total  General officers Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total	Per cent of	\$288 60 \$35 27 29 19 57 27 154 59 431 69
Other expenses.  Total  General officers Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses  Total  RECAPITULATION OF EXPENSES,	Per cent of expenses.	\$283 60 835 27 29 57 29 154 59 49 61 49 51 49 61 49 61 49 61 49 61 49 61 49 61 49 61 49 61 49 61
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.	Per cent of expenses.	\$283 60 \$352 20 \$10,601 82 \$283 60 \$35 27 29 19 57 27 154 66 19 51 431 69 \$1,880 78
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.	Per cent of expenses. 22.75	\$10,601 32 \$10,601 32 \$283 60 \$35 27 29 19 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.	Per cent of expenses. 22.75 5.90 63.23	\$288 60 \$35 27 29 19 57 27 154 59 419 51 431 69 \$1,360 78
Other expenses.  Total  General officers Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses  Total  RECAPITULATION OF EXPENSES,	Per cent of expenses. 22.75	\$10,601 32 \$10,601 32 \$283 60 \$35 27 29 19 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42
Other expenses  Total  General officers Salaries of general officers Salaries of olerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES,  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes.	Per cent of expenses. 22.75 5.90 63.23 8.12	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total.  RECAPITULATION OF EXPENSES.	Per cent of expenses. 22.75 5.90 63.23	\$288 60 \$35 27 29 19 57 27 154 59 419 51 431 69 \$1,360 78
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes	Per cent of expenses. 22.75 5.90 63.23 8.12	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes	Per cent of expenses. 22.75 5.90 63.23 8.12	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes	Per cent of expenses. 22.75 5.90 63.23 8.12	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses  Total  General officers Salaries of general officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue,	Per cent of expenses. 22.75 5.90 63.23 8.12 100.00 \$371 73	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes	Per cent of expenses. 22.75 5.90 63.23 8.12	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses  Total  General officers Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES,  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 23,384 miles.	Per cent of expenses. 22.75 5.90 63.23 8.12 100.00 \$371 78	\$283 60 \$10,601 32 \$283 60 835 27 29 15 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78 \$16,765 05
Other expenses  Total  General officers Salaries of general officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue,	Per cent of expenses. 22.75 5.90 63.23 8.12 100.00 \$371 78	\$10,601 32 \$10,601 32 \$283 60 835 27 29 154 59 57 27 154 59 49 56 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES,  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 23,384 miles.  Proportion of operating expenses and taxes for Michigan	Per cent of expenses. 22.75 5.90 63.23 8.12 160.00 \$371.78	\$283 60 \$10,601 32 \$283 60 835 27 29 15 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78 \$16,765 05
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes  Total.  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 23,384 miles.  Percentage of expenses to earnings.	Per cent of expenses. 22.75 5.90 63.23 8.12 160.00 \$371.78	\$283 60 \$10,601 32 \$283 60 835 27 29 15 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78 \$16,765 05
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes  Total.  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 23,384 miles.  Percentage of expenses to earnings.	Per cent of expenses. 22.75 5.90 63.23 8.12 160.00 \$371 73 72	\$283 60 \$10,601 32 \$283 60 835 27 29 15 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78 \$16,765 05
Other expenses.  Total  General officers Salaries of general officers Salaries of derks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES,  Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 23,384 miles.  Proportion of operating expenses and taxes for Michigan	Per cent of expenses. 22.75 5.90 63.23 8.12 160.00 \$371.78	\$283 60 \$10,601 32 \$283 60 835 27 29 15 57 27 154 59 49 66 19 51 431 69 \$1,360 78 \$3,814 53 988 42 10,601 32 1,360 78 \$16,765 05
Other expenses.  Total.  General officers. Salaries of general officers. Salaries of derks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes  Total.  RECAPITULATION OF EXPENSES.  Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 23,384 miles.  Percentage of expenses to earnings.	Per cent of expenses. 22.75 5.90 63.23 8.12 160.00 \$371 73 72	\$283 60 \$10,601 32 \$283 60 835 27 29 19 57 27 154 59 49 66 19 51 431 69 \$1,380 78 \$3,814 53 988 42 10,601 32 1,380 78

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Paine's to St. Louis, January, 1873.
From Alm; to Ithaca, March, 1883.

I to military to a march, march, according to		
MAIN LINE.  In Michigan, from Paine's to St. Louis	(iles. 28.60	Miles
Total length completed.		28.60
		26.00
Branches.		
From Alma to Ithaca	6.90	
Total length of branches owned by company		6.90
Total length of branches owned by company in Michigan	6.90	
Total length of road belonging to this company		85.50
Total length of road belonging to this company in Michigan Aggregate length of sidings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company computed as a track		4.12 39.52
Gauge of track, 4 feet 8% inches.		<del></del>
Proprietary or leased roads operated by this company.	;	In Michigan.
Name, description and length of each: Saginaw & Grand Rapids R. R., St. Louis to Alma		8.60
Jackson, Lansing & Saginaw R'y, East Saginaw to Paine's		6.00
Total		9.60
Total miles operated by company		45.10
,		
Number of bridges and trestles in Michigan.	mhau	Aggregate length, feet.
Wooden bridges	2	63
Wooden trestles	6	478
Total	8	541
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? Ann Arbor R. R. at St. Louis.		
Number of crossings of highways at grade in this State.		65
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.		
How are they treated?  Hart guard and blocked with plank.		
Stations.		
Number of stations on whole line		13
Same in Michigan		18
Employés.		
Number of persons regularly employed on all roads operated by company, inche officials Same in Michigan	ıding	55 55
Classify your employés as per following list:		Number.
Raggagemen		1
Brakemen Conductors		4 8
Engineers		8
Fireman Laborers		8 19
Others		22

## REPAIRS AND RENEWALS.

# Fencing in Michigan.

Fencing in Michigan.		
How many miles of fencing have you? 78.14 miles.		
Road bed and track.		_
Number of track sections in Michigan	5.68	7
Average lengths of section (miles)	3.00	8
Average number of men in each section gang Number of new ties put in whole line during the three mouths Number of new ties put in track in Michigan		10
Number of new ties put in track in Michigan		
POLITING STOOK		D
ROLLING STOCK.	Number	Present esti- mated value.
Number of locomotives of 20 to 80 tons weight, exclusive of tender		
Number of tocomoures of 20 to 00 tons weight, exclusive of tonues		
Total	8	\$7,500 00
Number of passenger cars—8 wheel, including official cars	2	\$5,000 00
Number of express and baggage cars	1	1.500 00
Number of box freight cars	10	2,500 00 7,000 (Q
Number of express and baggage cars Number of box freight cars Number of platform cars Number of conductor's way cars	20	1,400 00
Total		23,900 00
Number of locomotives equipped with power brakes		8 8
What patterns of power brakes have you in use, and number of locomotives		
each?		
Westinghouse-locomotives		8
Dassenger Cars		8
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887?	y act No. 147, a	session laws
or 1885, as amended by act No. 88, session laws or 1887? Yes.		
What pattern or patterns have you adopted for use? Gould Automatic.		
How are your passenger cars heated. Steam.		
MILEAGE, TRAFFIC, ETC.		In Michigan.
MILEAGE, TRAFFIC, ETC.		In Michigan. 16.416
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.		16,416
MILEAGE, TRAFFIC, ETC.		16,416
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year		16,416 6,968 308
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.		16,416 6,968 308
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year  Miles run by mixed trains.  Total mileage of trains earning revenue.		16,416 6,968 308
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains.  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigan	n.	16,416 6,968 303 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year	n. Miles.	16,416 6,968 303 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.	n. Miles.	16,416 6,968 303 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year	n. Miles.	16,416 6,968 303 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan Number of through passengers carried earning revenue.  Number of local passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21.9	78. Miles. 30 36 	16,416 6,968 303 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year  Miles run by freight trains during the year  Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michiga.  Number of through passengers carried earning revenue  21,7  Total number of passengers carried earning revenue  21,7  Number of passengers carried earning revenue  21,7  Total number of passengers carried earning revenue  21,8  147,8	n. s. Miles. 30 36 36	16,416 6,988 303 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year  Miles run by freight trains during the year  Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michiga.  Number of through passengers carried earning revenue  21,7  Total number of passengers carried earning revenue  21,7  Number of passengers carried earning revenue  21,7  Total number of passengers carried earning revenue  21,8  147,8	n. s. Miles. 30 36 36	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by freight trains during the year Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigar Number of through passengers carried earning revenue 21,7  Total number of passengers carried earning revenue 21,8  Number of passengers carried one mile	n. Miles. 30 56 86 97 19.007	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by freight trains during the year Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigar Number of through passengers carried earning revenue 21,7  Total number of passengers carried earning revenue 21,8  Number of passengers carried one mile	n. Miles. 30 56 86 97 19.007	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigan Number of through passengers carried earning revenue  Number of local passengers carried earning revenue 21,7  Total number of passengers carried earning revenue 21,9  Number of passengers carried earning revenue 21,9  Number of passengers carried one mile 417,8  Average distance carried  Average amount received from each passenger.	n. Miles. 30 56 86 97 19.007	16,416 6,968 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains.  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigan Number of through passengers carried earning revenue  Number of local passengers carried earning revenue 21,2  Total number of passengers carried earning revenue 21,2  Number of passengers carried earning revenue 21,2  Number of passengers carried earning revenue 21,3  Average distance carried  Average amount received from each passengers  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers	n. Miles. 30 56 56 57 19.007	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigan Number of through passengers carried earning revenue 21,7  Total number of passengers carried earning revenue 21,8  Number of passengers carried earning revenue 21,8  Average distance carried  Average amount received from each passenger  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per mile for local passengers  Average receipts per mile for local passengers  Freight traffic—Road all in State of Michigan	n. Miles. 30 56 86 97 19.007	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigar.  Number of through passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21,9  Number of passengers carried earning revenue.  21,9  Number of passengers carried one mile.  Average distance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Freight traffic—Road all in State of Michigan.  Tons	n.  Miles. 30 36 86 97	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by freight trains during the year Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigan Number of through passengers carried earning revenue 21,3 Number of local passengers carried earning revenue 21,4 Number of passengers carried earning revenue 21,3 Number of passengers carried one mile 417,8 Average amount received from each passengers. Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers Freight traffic—Road all in State of Michigan. Toni Number of tons of through freight carried earning revenue 22	7. Miles. 30 97 19.007 19.58 Miles. Miles. 58	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigar.  Number of through passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21,9  Number of passengers carried earning revenue.  21,9  Number of passengers carried one mile.  Average distance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Freight traffic—Road all in State of Michigan.  Tons	7. Miles. 30 97 19.007 19.58 Miles. Miles. 58	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by freight trains during the year Miles run by mixed trains  Total mileage of trains earning revenue  Passenger traffic.—Road all in State of Michigan Number of through passengers carried earning revenue 21,3 Number of local passengers carried earning revenue 21,4 Number of passengers carried earning revenue 21,3 Number of passengers carried one mile 417,8 Average amount received from each passengers. Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers Freight traffic—Road all in State of Michigan. Toni Number of tons of through freight carried earning revenue 22	n. s. Miles. 30 36 86 97 19.007	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21,9  Number of passengers carried earning revenue.  21,9  Number of passengers carried one mile.  Average distance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Freight traffic—Road all in State of Michigan.  Ton:  Number of tons of through freight carried earning revenue.  22  23  24  25  26  27  27  28  29  29  29  20  20  20  20  20  20  20	n.  8. Miles. 30 36 86 97 19.007 8. Miles. 58	16,416 6,968 303 23,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21,9  Number of passengers carried earning revenue.  21,9  Number of passengers carried one mile.  Average distance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Freight traffic—Road all in State of Michigan.  Ton:  Number of tons of through freight carried earning revenue.  22  23  24  25  26  27  27  28  29  29  29  20  20  20  20  20  20  20	n.  8. Miles. 30 36 86 97 19.007 8. Miles. 58	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.737 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21,8  Number of passengers carried earning revenue.  21,9  Number of passengers carried one mile.  Average datance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  Total tons of freight carried earning revenue.  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0	78. Miles. 30 97 19.007 19.007 Miles. 58 08 66 11,610 420,755	16.416 6,988 303 23,384 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  Number of local passengers carried earning revenue.  21,3  Number of passengers carried earning revenue.  21,4  Number of passengers carried earning revenue.  21,3  Number of passengers carried one mile.  417,8  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  21,9  21,9  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  2	7. Miles. 30 56 97 19.007 19.007 19.007 11,610 420,755 432,385	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.787 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  Number of local passengers carried earning revenue.  21,3  Number of passengers carried earning revenue.  21,4  Number of passengers carried earning revenue.  21,3  Number of passengers carried one mile.  417,8  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  21,9  21,9  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  2	7. Miles. 30 56 97 19.007 19.007 19.007 11,610 420,755 432,385	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.787 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  Number of local passengers carried earning revenue.  21,3  Number of passengers carried earning revenue.  21,4  Number of passengers carried earning revenue.  21,3  Number of passengers carried one mile.  417,8  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  21,9  21,9  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  2	7. Miles. 30 56 97 19.007 19.007 19.007 11,610 420,755 432,385	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.787 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  Number of local passengers carried earning revenue.  21,3  Number of passengers carried earning revenue.  21,4  Number of passengers carried earning revenue.  21,3  Number of passengers carried one mile.  417,8  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  21,9  21,9  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  2	7. Miles. 30 56 97 19.007 19.007 19.007 11,610 420,755 432,385	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.787 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  Number of local passengers carried earning revenue.  21,3  Number of passengers carried earning revenue.  21,4  Number of passengers carried earning revenue.  21,3  Number of passengers carried one mile.  417,8  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  21,9  21,9  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  2	7. Miles. 30 56 97 19.007 19.007 19.007 11,610 420,755 432,385	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.787 Rate.
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MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan  Number of through passengers carried earning revenue.  21,7  Total number of passengers carried earning revenue.  21,8  Number of passengers carried earning revenue.  21,9  Number of passengers carried one mile.  Average datance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Toni  Number of tons of through freight carried earning revenue.  21,9  21,9  Total tons of freight carried earning revenue.  22,0  23,0  24,0  25,0  26,0  26,0  27,0  28,0  29,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0  20,0	7. Miles. 30 56 97 19.007 19.007 19.007 19.007 11,610 420,755 432,385	16.416 6,988 303 28,384 Rate. \$0 52.081 02.716 02.736 02.787 Rate.

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight received from connecting	Total freig	ht tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture : Grain Flour Other mill products Hay. Fruit and vegetables.	102 22	3 24 11	799 126 83 175	4.10 .65 .17
Products of animals: Live stock. Dressed meats Other packing house products. Poultry, game and fish. Hides and leather.	90	17 4 9 8	57 94 103 20 5 19	.29 .48 .53 .10 .03
Products of mines: Anthracite coal Bituminous coal Stone, sand and other like articles Salt Products of forest:	45 45	15 2	45 45 15 1,786	.28 .23 .08 9.17
Liumber	6,061	7,108	13,16 <del>4</del>	67.63
Manufactures: Petroleum and other oils. Castings and machinery Cement, brick, and lime. Agricultural implements. Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture.	48 187 24 5 28	17 61 25 9 	189 104 162 83 5 5 51	.71 .54 .83 .17 .03 .26
Merchandise	715	506	1,221	6.27
Miscellaneous: Other commodities not mentioned above	1,061	60	1,121	5. <b>76</b>
Total tonnage.	11,503	7,968	19,466	100.00

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. They handle their own freight.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 32.19. Western Union Telegraph Co.

STATE OF MICHIGAN, }ss.

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Saginaw Valley & St. Louis Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and bolief.

[L. S. OF R. R.]

Signed,

CHAS. M. HEALD, U. B. ROGERS.

Subscribed and sworn to before me this 14th day of April, A. D. 1897.

[L. S.]

ERNEST N. WELLER, Notary Public, Kent Co., Mich.

## THREE MONTHS' REPORT

OF THE

# SAGINAW & GRAND RAPIDS RAILROAD COMPANY,

For the three months ending March 81, 1896.

[Filed April 24, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass. Secretary, JAMES E. HOWARD, Grand Rapids, Mich. Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
CHARLES MERIAM, Boston, Mass.
G. O. SHATTUCK, Boston, Mass.
A. H. HARDY, Boston, Mass.
JNO. A. BURNHAM, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
W. HUNNEWELL, Boston, Mass.
W. HUNNEWELL, Boston, Mass.
F. H. DAMON, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire July 8, 1896.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 12, 1878.

Number of stockholders at date of last election: 24.

Number of stockholders in Michigan at same date: 1.

Amount of full paid stock held in Michigan at same date: \$100.00.

Date of annual meeting of stockholders: Second Wednesday in July.

Fiscal year of company ends December 31.

General offices of the company are located at Grand Rapids, Mich.

### REMARKS.

This road is leased to the Saginaw Valley & St. Louis railroad Company during the corporate existence of both companies, the Saginaw Valley and St. Louis Railroad Company paying a dividend of ten per cent upon the stock of this company, as rental, two per cent of which is set aside to purchase the stock of the Saginaw & Grand Rapids Railroad Company for the use and benefit of the Saginaw Valley & St. Louis Railroad Company at an agreed price.

## ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association Par value of shares \$100 ( Average price rec-ived per share 100 ( Number of shares issued 700 Amount paid in on common 700	\$1,000,000 00
Par value of shares	10 10
Number of shares issued	
Amount paid in on common	\$70,000 00
Total amount paid in as per books of the company	70,000 00
Pald in per mile of road owned by company, 8.60 miles	19,444 44
RECAPITULATION.	
Total debt lie bilities	\$70,000.00
Total debt liabilitiesAmount of debt liabilities per mile of road, 8.60 miles	19,444 44
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches by	ill by company.
Total expended for construction  Average cost of construction per mile of road (not including sidings), 3.60 m	\$70,000 00 iles 19,444 44
Proportion of cost of construction for Michigan	AJI.
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: May, 1879.	
MAIN LINB.	
•	Miles.
Length completed in Michigan, St. Louis to Alma	
Total length completed.	8.60
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan  Aggregate length of tracks belonging to this company, computed as sing	
Aggregate length of tracks belonging to this company, computed as sing	le track 3.60
Gauge of track, 4 feet 8½ inches.	
STATE OF MASSACHUSETTS, } ss.	
Nathaniel Thayer, president, and James E. Howard, secretary, of the Saroad Company, being duly sworn, depose and say that they have caused the prepared by the proper officers and agents of this company, and havis same, declare them to be a true, full, and correct statement of the stock, otherein contained of said company, on the thirty-first day of March, A. I knowledge and belief.	he foregoing statements to ng carefully examined the lebt, and other matters as
[L. S. OF R. R.] Signed,	UND Developed
	YER, President. E. HOWARD, Secretary.
Subscribed and sworn to before me this 22d day of April, A. D. 1897.	E. GOWALD, Secretary.
Bi	N. Thayer.
r 3	70 77 Th

[L. S.]

F. H. DAMON, Notary Public.

STATE OF MICHIGAN, COUNTY OF KENT, 88.

Subscribed and sworn to before me this 18th day of April, A. D. 1897, as to James E. Howard. ERNEST N. WELLER, Notary Public, Kent county. Mich. [L. S.]

## ANNUAL REPORT

#### OF THE

# SAULT STE. MARIE BRIDGE COMPANY,

For the year ending December \$1, 1898.

[Filed April 12, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CALVIN S. BRICE, New York.
Secretary and Treasurer, GEO. H. CHURCH, 46 Wall St., New York.

## ORGANIZATION, ETC.

When chartered or articles of association filed: March 16, 1887.
Number of stockholders at date of last election: 12.
Number of stockholders in Michigan at same date: 1.
Date of annual meeting of stockholders: First Wednesday in June each year.
General offices of the company are located at 48 Wall St., New York.

### STOCKHOLDERS, DECEMBER 31, 1896.

Name.	Residence.	Amount held.
Calvin S. Brice	New York City.	\$100 00
George T. Bliss	4 4 4	100 00
George H. Church		249,800 00
Stillman Gray	! " "	100 00
Charles F. Halsted		499,500 0
Thomas Lowry	Minneapolis	100 00
James McMillen	Detroit	100 00
Thomas G. Shaughnessy	Montreal	100 00
L. F. Sullivan	New York City	249,800 0
Samuel Thomas	11 11	100 00
Sir Wm. C. Van Horne	Montreal	100 00
Walter Wateon	New York City	100 00
Total		\$1,000,000 0

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Character and date of issue.	Rate of interest.	When due.	Payable when.	Amount out- standing.
First mort. (\$1,000) bonds dated July 1, 1887.	5%	Jan. 1, & July 1.	July 1, 1987	\$900,000 00

#### RECAPITULATION.

M . 1. 11. 1	*****
Total stock and debt	
Total 8000k and deot	=====
COST.	
Total cost of bridge and belongings	k1.900.000.00
Total cost of ortuge and parongings	
· TRACK.	
Length of single main track—feet	6,421
Length of single main track—feet.  Length of single main track—feet in Michigan.	1,900
ANALYSIS OF EARNINGS AND EXPENSES.	
Barnings.	
From rentals or tolls: Under agreement with Canadian Pacific Railway Company, Duluth, South Shore & Atlantic Railway and the Minneapolis, St. Paul and Sauit Ste. Marie Railway, the amount paid for use of bridge is to be the expenses of operating, and the interest and sinking fund on the bonded debt and no more.	
Total earnings on entire track. Proportion of total earning on 1,900 feet of track in Michigan.	\$63,085 80 18,667 20
EXPENSES.	
Operating.	
Saiaries of officers and clerks { Management and maintenance }	\$11,217 08
Taxes Interest on first mortgage bonds Miscellaneous, sinking fund	674 19 45,000 00 5,500 00
Property account.	
For renewals and improvements.	694 08
Total.	\$63,085 80
RECAPITULATION.	
Expenses for operating and taxes	\$11,891 22
Expenses for property account	694 08
Total expenses for the year	\$12,585 90
Interest on bonds and sinking fund.	50,500 00

## VERIFICATION.

STATE OF NEW YORK, } ss.

County of New York, } ss.

Calvin S. Brice, president, and George H. Church, secretary of the Sault Ste. Marie Bridge Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the said company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

Signed,

CALVIN S. BRICE,

OFF. M. CHURCH.

GEO. H. CHURCH.

Subscribed and sworn to before me this 9th day of April, A. D. 1897. [L. 8.]

CHARLES T. SMITH, Notary Public, Queens Co.

Certificate filed in New York Co.

## ANNUAL REPORT

#### OF THE

## SOUTH HAVEN & EASTERN RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed February 4, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, R. B. DODSON, New York, N. Y.
Secretary, W. G. SNOW, New York, N. Y.
Auditor, ERNEST F. EILERT, Paw Paw, Mich.
Treasurer, R. B. DODSON, New York, N. Y.
General Manager, M. V. MEREDITH, Paw Paw, Mich.
General Passenger Agent, M. V. MEREDITH, Paw Paw, Mich.
General Freight Agent, M. V. MEREDITH, Paw Paw, Mich.
Attorney, HOWARD J. MANSFIELD, New York, N. Y.

#### DIRECTORS.

CHAS. D. BACKUS, New York, N. Y. W. G. SNOW, New York, N. Y. R. B. DODSON, New York, N. Y. CHAS. H. CAMPBELL, Detroit, Mich. CHAS. J. MONEOE, South Haven, Mich.

Terms expire May 23, 1895, or when successors are elected by stockholders.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: April 21, 1876, T. & S. H. R. R.; May 23, 1894, S. H. & E. R. R.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 2.

Date of annual meeting of stockholders: Third Thursday in May at South Haven, Mich.

Fiscal year of company ends: December 31.

General offices of the company are located at Paw Paw, Mich.

GENERAL EXHIBIT. Debit.	Credit.
Total earnings from operation.	\$27,786 08
Total expenses, including taxes \$32,748 46	421,100 00
Net deficit \$4,962 38	
Interest on unfunded debt	
Balance for the year	
Balance (profit and loss) last year	5,514 29
Balance forward to next year	24 58
ANALYSIS OF CAPITAL STOCK.	
Amount authorised by charter or articles of association.	\$300,000 00
Number of shares issued         2,185           Amount paid in on common         \$218,500 00	
Total amount paid in, as per books of the company	218,500 00
Paid in permile of road owned by company, 36.60 miles	5,969 95

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

			, EDI.		
Class, character and date of	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st mortgage bonds, April 1, 1895.		•	April 1, 1925	New York City	\$216,000 00
*At 3 per cent for two years, the	on 4 per ce	nt for thre	e years, then 5 pe	r cent until maturi	ty.
		DNFUNDED	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	w liquidated?	Amount.
For miscellaneous					\$7,000 00 1,577 00
Total unfunded debt					\$8,577 00
		RECAPITUL	ATION.		
Total funded debt					\$216,000 00- 8,577 00
Total debt liabilities					
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road, &	le of road, 36.60 miles	36 60 mile	8		6,185 96- 443,077 00 12,105 92
(	ENERAL	BALANC	E SHEETDr.		
Construction account			· · · · · · · · · · · · · · · · · · ·	}	\$439,558 19
Cash items: Cash		• • • • • • • • • • • • • • • • • • •			
Other assets:	3 / 3/				- 2,175 78
Debit balances from companies Total					
(	BENERAI	BALAN	CE SHEET.—Cr.		
Capital stock Funded debt				\$218,500 0 216,000 0	) 
Unfunded debt: Notes payable				\$7,000 0 1,577 0 24 5	0
Total					443,101 58
C	OST OF I	ROAD AN	D EQUIPMENT.		
	PURCHASE	D BY PRE	SENT COMPANY.		•
When purchased by present comp Original cost to present company, Amount expended since purchase, Amount expended since purchase,	of road a	nd equipp	nent	}	. \$430,241 21 9,316 98
Total cost to date of report					
				•	. 4100,000 19

Average cost per mile of road (not including sidings), 36.60 miles.....

# ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.

PASSENGER BARNINGS.	MIGAII.	
Main line and branches: Local fares	\$13,628 84	
Total passenger fares	\$13,623 84	
Express and baggage	1,228 01 1,880 14	
Total passenger department earnings		\$16,781 99
Per train mile	\$7 271/2 457 16	
Main line and branches: Local traffic	10,572 35	
Total freight department earnings		10,572 85
Per train milePer mile of road	90 1714 288 86	
Total transportation earnings, entire line		\$27,804 84
Transportation earnings per mile of road	44%	
From telegraph companiesFrom other sources		59 80 421 94
Total		\$27,786 08
Total earnings from operation of road		\$27,786 08
MAN AND AND AND AND A	PFO 40	
Total earnings per mile or road Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	45% 759 18	27,786 08
Total income from all sources		\$27,786 08
Proportion of income for Michigan		27,786 08
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		<b>66</b> 040 <b>67</b>
Bepairs of roadway Renewals of rails Renewals of tails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Bepairs and renewals of buildings and fixtures Repairs and renewals of telegraph Other expenses		96,242 65 2,484 37 3,000 01 97 93 44 05 239 84 24 50 41 37
Total		\$12,174 22
Repairs and renewals of locomotives		\$3,851 58 95 75 1,025 78 200 00 801 57 29 77
Total.		\$5,504 85 ==========
CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses Station service. Station supplies Loes and damage. Advertising Other expenses Total		\$1,904 42 3,491 06 211 41 239 20 44 92 1,617 61 131 57 8,078 85 78 61 27 00 156 25 \$11,333 93

GENERAL EXPENSES.		
Salaries of general officers		\$1,941 05
Salaries of cierks and attendants General office expenses and supplies		675 00 56 68
Insurance		69 84 184 18 806 97
Stationery and printing (general offices) Other expenses Taxes		906 97 552 74
Total		\$3,785 96
RECAPITULATION OF EXPENSES.		
	Per cent of expenses.	
Maintenance of way and structures	87.46 16.64	\$12,174 22 5,504 35
Maintenance of equipment. Conducting transportation General expenses, including taxes	84.50	11,833 93 8,735 96
	11.40	
Total operating expenses and taxes	100.	\$32,748 46
Operating expenses and taxes per mile of road	\$894 77	
Operating expenses and taxes per train mile run, for trains, earning revenue [61.220] miles	.531/4	
Proportion of operating expenses and taxes for Michlgan—Main line		\$32,748 46
Percentage of expenses to earnings	112	• .
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Lawton to South Haven, August, 1887.		
. MAIN LINE.	201	<b>N</b> /13
In Michigan, from Lawton to South Haven	Miles. 36.60	Miles.
Total length completed		36.60
Total length of road belonging to this company		36.60
Aggregate length in Michigan of sidings, spurs, and other tracks not above		
enumerated Aggregate length of tracks in Michigan belonging to this company, computed as a	1.20 ingle track.	87.80
Gauge of track, 3 feet.		
Number of bridges and trestles in Michigan.		A
	Number.	Aggregate length, feet.
Wooden bridges	8	
Total	8	750
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State and at what locality? C. & W. M. R. B. at Hartford. Michigan Central R. R. at South Haven.		
At what crossings are interlocking and derailing switches in operation? C. & W. M. R. R. crossing at Hartford.		
What pattern or patterns have you adopted? Scotch-block.		•
Are your frogs and guard rails blocked as required by Act 174, Session Laws 18 Yes.	887	
How are they treated? With wood.		
Stations.  Number of stations on whole lines		9

# Employés.

Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	. 44
Classify your employée as per following list:  Baggagemen Brakemen. Conductors Engineers Firemen Laborers Shopmen Yardmen Others. Agents	1 2 2 1 . 24 3
REPAIRS AND RENEWALS.	
Fencing in Michigan.  How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed.	48
. Road bed and track.	
Number of track sections in Michigan Average length of sections (miles) Average number of men in each section gang Number of new ties put in whole line during the year Number of new ties put in track in Michigan Average number of new ties per mile of road New rails put in track:	18,629 18,629 18,629
Steel (tons 105½), miles 1½. Total miles of track laid with new rails	
Bridges and culverts.	
Timber culverts replaced during the year	. 50 fee t
ROLLING STOCK. Number.	Present esti- mated value.
ROLLING STOCK.	Present estimated value.  3 \$6,000 00
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present esti- mated value.  3
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present esti- mated value.  3
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present asti- mated value. 3
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present asti- mated value. 3 \$6,000 00 3 \$6,000 00 7 \$3,500 00 1 1,500 00 3 1,400 00 3 312,900 00 3 \$12,900 00
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total.  Number of passenger cars—8-wheel, including official cars.  Number of spress and baggage cars.  Number of box freight cars.  11 Number of platform cars.  12 Other cars as follows: Snow plow.  Total.  Story  Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  What patterns of power brakes have you in use, and number of lecomotives and cars with	Present esti- mated value.  3
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total.  Number of passenger cars—8-wheel, including official cars.  Number of spress and baggage cars.  Number of box freight cars.  11 Number of platform cars.  12 Other cars as follows: Snow plow.  Total.  Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  What patterns of power brakes have you in use, and number of lecomotives and cars with Westinghouse—Engines, 2; coaches, 4.  Are your freight cars being equipped with automatic couplers as required by act No. 147, of 1887, as amended by act No. 88, session laws of 1887?	Present esti- mated value.  3
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present esti- mated value.  3
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present astimated value.  3
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	Present esti- mated value.  3

## Passenger traffic.—In State of Michigan.

Number of local passengers carried, earning revenue	Numbers. 83,062	Miles.	Rate.
Total number of passengers carried, earning revenue	38,062		
Number of passengers carried one mile			\$0 41 08
Average receipts per passenger per mile for all passengers	•		08
		_	
Freight traffic.—In State of Michi Number of tons of local freight carried, earning revenue	gan. Tons. 8,275	Miles.	Rate.
	Tons.	Miles.	Rate.
Number of tons of local freight carried, earning revenue	Tons. 8,275 8,275	Miles.	Rate.

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# Company's material excluded.

Commodity.	Freight originating on this road. Whole tons.	Freight received from connecting roads and other carriers. Whole tons.	Total freight tonnage.	
			Whole tons.	Per cent.
Products of agriculture:				
Grain	753 91		758 91	9.
Flour			69	1.70
Hay Fruit and vegetables.	3,148		3,148	39.25
Potatoes	13		13	.15
Products of animals:				
Live stock	. 8		. 8	.10
Dressed meats	15		15	.1′
Poultry, game and fish	20		20	.21
Products of mines:				
Anthracite coal		527	527	6.1
Bituminous coal		157	157	2.0
Balt		157	151	2.00
roducts of forest:			1	
Lumber		543	548	6.50 10.7
Logs Shingles	896	141	896   141	10.7
Sumgres		141	141	1.0
fanufactures:				~
Petroleum and other oils	·	62	62 104	.7 1.2
Sugar Castings and machinery	26	104	68	.8
Cement, brick and lime	184	62	196	2.8
Agricultural implements	10	85	45	.4
Wagons, carriages, tools, etc.	9	15	24	.2
Wines, liquors and beers		46	46	.50
Household goods and furniture	46	84	80	1.
ferchandise	818	951	1,269	15.
Total tonnage	5,556	2,719	8,275	100.

### ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co.; an agreed basis per cwt.; we take their freight at our depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 87 miles; belongs to South Haven & Eastern R. R. Co.

STATE OF MICHIGAN, ss. County of VanBuren,

M. V. Meredith, general manager, of the South Haven & Eastern Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed.

M. V. MEREDITH, Gen. Man. ERNEST F. EILERT, Auditor.

Subscribed and sworn to before me this 30th day of January, A. D. 1897.

[L. S.]

T. J. CAVANAUGH, Notary Public in and for Van Buren Co., Mich.

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### ANNUAL REPORT

#### OF THE

## ST. CLAIR TUNNEL COMPANY.

For the year ending December 31, 1896.

[Filed April 6, 1897,]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CHARLES M. HAYS, Montreal, Can. Vice President, JOHN BELL, Belleville, Can. Secretary and Treasurer, CHARLES PERCY, Montreal, Can. General Superintendent, F. H. McGUIGAN, Montreal, Can. Chief Engineer, JOSEPH HOBSON, Montreal, Can. Attorney, E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

CHARLES M. HAYS, Montreal.
JOHN BELL, Bellville.
HON. A. VIDAL, Sarnia.
CHAS. MACKENZIE, Sarnia.
W. J. SPICER, Detroit.
E. W. MEDDAUGH, Detroit.
F. H. McGUIGAN, Montreal.
Terms expire September, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 13, 1886 and November 24, 1886.
Number of stockholders at date of last election: 8.
Number of stockholders in Michigan at same date: 2.
Amount of full paid stock held in Michigan at same date: \$7,500 paid on \$15,000 stock held.
Date of annual meeting of stockholders: Last Wednesday in September.
Fiscal year of company ends June 30.
General offices of the company are located at Montreal, Can.

#### REMARKS

This company derives it revenue from tolls levied upon rolling stock passing through the tunnel. The company haul trains through the tunnel with their own locomotives and train crews, and to that extent only perform the functions of a railway company. Hence many of the statistics asked for in this report, and which pertain to the operations of a railway company proper, cannot be given as no records are kept.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$283,158 50
Net income		\$142,070 08
Interest on funded debt	\$125,000 00	
Balance for the year		\$17,070 08
Balance (profit and loss) last year.	\$29,792 07	
Balance forward to next year	\$12,721 99	

# ANALYSIS OF CAPITAL STOCK.

		TTAL STOCK.			
) 00 50≰		7,000		nthorized by charter or articles of shares	Number o
<b>\$350,000 00</b>		<b>7</b>	e compan	amount paid in as per books of t	Total
155,555 00			y, 2¼ miles	or mile of road owned by compan	Paid in p
		BT ACCOUNTS.	IS OF DE	ANALYS	
		DEBT.	FUNDED 1		
Amount outstanding.	Where payable.	When due.	Rate of interest.	, character and date of issue.	Class
\$2,500,000 00	Montreal	July 1, 1940	. 5≴	tgage bonds	First mon
		DEBT.	UNFUNDAD		
Amount.	w liquidated.	be funded or ho	the same to	or what incurred.	F
\$12,721 99				nt balances	For surre
				debt liabilities	
		CE SHEET.—Dr.			
8 51	69,938 51			ion account nt account estments: d land damages ery and tools necous expenses ances from companies and indivi	Equipmen
\$3,228,170 61 14,551 88			lnals	ances from companies and indivi	Debit bal
		E SHEET.—Cr.			
0 00 0 00 0 00	\$850,000 00 2,500,000 00 875,000 00			tock (paid up)ebtebtent subsidy	Capital a Funded d Governm
\$3,225,000 00					Unfunde
		D EQUIPMENT.	BOAD AN	COST OF	
pany.	hes built by compar	of road and branc	quipment (	Total cost for construction and	
\$3,228,170 61			ment	ended for construction and equipost per mile of road (not including	Total exp
1,611,585 30			R aididRa).	on of cost for Michigan	Proportion

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Property sold and credited.	\$182 12
analysis of Earnings.—In State of Michigan.	
PASSENGER BARNINGS.	
Tolls on passenger cars. Per mile of road.	\$21,818 00 19,838 22
FREIGHT EARNINGS.	
Tolls on freight cars and new locomotives  Per mile of road	\$94,758 25 84,229 55
Analysis of Earnings.—Entire Lines.	
PASSENGER EARNINGS.	
Tolls on passenger cars	\$43,636 00 19,838 22
FREIGHT EARNINGS.	
Tolls on freight cars and new locomotives  Per mile of road	\$189,516 50 84,229 55
Total transportation earnings, entire line	\$283,152 50
	1 00,
Total	\$238,153 50
Proportion of taxable earnings for Michigan	116,576 75 103,623 77 283,158 50
Proportion of income for Michigan	116,576 75
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Maintenance of way and structures	\$5,488 84
MAINTENANCE OF EQUIPMENT.	
Motive power charges	\$51,400 78
CONDUCTING TRANSPORTATION.	
Transportation charges	\$25,844 92
GENERAL EXPENSES.	
General charges	\$3,769 50 5,084 43
Total	\$8,858 98
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	\$5,488 84 51,400 79
Maintenance of equipment Conducting transportation General expenses, including taxes	\$5,483 84 51,400 73 25,344 92 8,858 98
Total operating expenses and taxes.	\$91,088 42

MENDELL U. ANDERSON,
U. S. Consul General at Montreal.

One-still	640 404 F0
Operating expenses and taxes per mile of road	\$40,481 53 45,541 71
Percentage of expenses to earnings	63,142 25
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Sarnia to Port Huron, for freight traffic, October 24, 1891; for passenger traffic, Dec	ember 7, 1891.
MAIN LINE. Miles.	Miles.
In Michigan 1.12% In Canada 1.12%	
Total length of road belonging to this company  Total length of road belonging to this company in Michigan	2.25
Gauge of track, 4 feet 8½ inches.	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.	55
Same in Michigan	19
Classify your employée as per following list:	Number
BrakemenConductors	. 5
Engineers Firemen	. 6
LaborersOthers	. 5
Total	
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	1.01
Road Bed and Track.	
Number of track sections in Michigan.	
Average lengths of sections (miles)  Average number of men in each section gang	1.12%
Average lengths of sections (miles).  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Average number of new ties per mile of road.	. 143
New rails put in track: Steel [tons 13½] miles	
ROLLING STOCK.	Present esti-
	mated value. \$14,000 00
Number of recommenders of more man or working excitably of reduction	\$11,000 00
Number of conductors' way care	\$800 00
Number of locomotives equipped with power brakes.	4
What patterns of power brakes have you in use, and number of locomotives and cars with Westinghouse air brakes.	each?
CITY OF MONTREAL, 385.  COUNTY OF HOCHELAGA, 385.  We, Charles M. Haye, president, and Chas. Percy, secretary and treasurer, of the St.  Company he in a day warm depose and say that we have caused the forecoing state	Clair Tunnel
We, Charles M. Hays, president, and Chas. Percy, secretary and treasurer, of the St. Company, being duly sworn, depose and say that we have caused the foregoing stat prepared by the proper officers and agents of this company, and having carefully examin declare them to be a true, full and correct statement of the condition and affairs of said the thirty-first day of December, A. D. 1896, to the best of our knowledge and belief.	ned the same, i company, on
[L. S. OF R. R.] Signed, CHAS. M. HAYS, I CHAS. PERCY, Sec	
Subscribed and sworn to before me this let day of April A D 1897	

Subscribed and sworn to before me this 1st day of April, A. D., 1897. [L. S.]

#### ANNUAL REPORT

#### OF THE

# ST. JOSEPH VALLEY RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed June 18, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. A. PATTERSON, Jr., Chicago, Ill. Vice President, D. H. PATTERSON, Chicago, Ill. Secretary, F. McOMBER, Berrien Springs, Mich. Treasurer, F. L. REEVES, Berrien Springs, Mich. General Manager, A. A. PATTERSON, Jr., Chicago, Ill. Chief Engineer, E. C. HURD, Benton Harbor, Mich. Attorney, M. L. HOWELL, Cassopolis, Mich.

#### DIRECTORS.

- A. A. PATTERSON, JR., Chicago, Ill.
- D. H. PATTERSON, Chicago, Ill.
- F. McOmber, Berrien Springs, Mich.
- F. L. REEVES, Newark, N. J.
- J. A. PATTERSON, Albany, N. Y.
- F. B. BENTON, Chicago. Ill.

Terms expire when new board is elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 1, 1889. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 2. Amount of full paid stock held in Michigan at same date: \$400.00. Date of annual meeting of stockholders: First Tuesday in April. Fiscal year of company ends December 31. General offices of the company are located at Benton Harbor, Mich.

#### REMARKS.

The road is now in control of a construction company, for the purpose of rebuilding and extending, and was not in operation during the year 1896—the term for which this report is called.

Five miles of heavy new grade and track have been completed from Benton Harbor south, and grading is now under way to complete the road to Berrien Springs.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$100.00  Number of shares issued \$3,000	\$300,000 00
Number of shares issued         3,000           Amount paid in on common         \$300,000 00	
Total amount paid in as per books of the company	800,000 00
Paid in per mile of road owned by company	30,000 00

# ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out standing.
First mortgage bonds, Aug , 1889	5≼	Aug. 1, 1919	New York	\$50,000 00
	UNFUNDED	DEBT.		
For what incurred.	he same to be	funded or how l	iquidated.	Amount.
For construction				\$62,546 44
	RECAPITUL	ATION.		
Fotal funded debtFotal unfunded debt	· • •			_ \$50,000 00 _ 62,546 49
Total debt liabilities				. \$112,546 49
Amount of debt liabilities per mile of roo	ad, 10 miles a	nd 6 miles addit	ional graded	•
Total amount of stock and debt	and 6 miles	additional grade	d	412,546 44
Coet of road franchises, etc.  Extension of line  Cash items:  Cash  Bills receivable			15,989 4	2 - \$365,989 43
Cash	viduals :			. 45,757 86
Total				. \$412,546 49
		CE SHEET.—Cr.		
Uapital stock     Funded debt			\$300,000 0	
Unfunded debt:			50,000 0	0 - <b>\$8</b> 50,000 00
Unfunded debt: Coupons Notes payable. Vouchers and accounts.			50,000 0	0 - <b>\$8</b> 50,000 00 0 9 0
			\$17,500 0 13,464 7 31,581 7	0 - \$850,000 00 0 9 0 - 62,546 49
Coupons Notes payable Vouchers and accounts. Total			\$17,500 0 \$17,500 0 \$13,464 7 \$31,581 7	0 - \$850,000 00 0 9 0 - 62,546 44
Coupons Notes payable Vonchers and accounts.  Total  COST O	F ROAD AN		\$17,500 0 \$17,500 0 \$13,464 7 \$31,581 7	0 - <b>\$8</b> 50,000 00 0
Coupons Notes payable Vouchers and accounts  Total  COST O	F ROAD AN	D EQUIPMENT	\$17,500 0	0
Coupons Notes payable Vouchers and accounts  Total  COST O  Pur When purchased: August 1, 1889. Original cost to present company, of rea	F ROAD AN  chased by produced and equipment of construction of miscelle	D EQUIPMENT	\$17,500 0	0

#### DESCRIPTION OF ROAD.

Miles. 10

MAIN LINE.	
In Michigan, from Buchanan to Berrien Springe.	
Total length completed	edingle

Date when the road was opened for use between its present termini. From Buchanan, Mich., to Berrien Springs, Mich., August 1, 1889.

Total length or road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spure, and other tracks not above enumerated. Aggregate length of tracks in Michigan belonging to this company, computed as single	. 50
track	10.50
Gauge of track, 4 feet 81/4 inches.	
Number of bridges and trestles in Michigan.	Aggregate
Number	length, feet.
Wooden trestles11	1,529.8
Number of crossings of highways at grade in this State.	. 10
Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 1888?  Yes.	
How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan	16
Classify your employés as per following list:	Number.
Brakemen	. 1
Engineers Firemen	
Laborers	. 6
REPAIRS AND RENEWALS.	
Fencing in Michigan.	-
How many miles of fencing have you.	20
Road bed and track.	
Number of track sections in Michigan Average lengths of sections (miles) Average number of men in each section gang	. 10
ROLLING STOCK.	Thereast and
	Present esti- mated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express company?

(When in operation)—American Express Co., 15c per 100 lbs. \$25.00 per month for messenger. Take freights at depot.

STATE OF MICHIGAN, Sec.

A. A. Patterson, Jr., president, and D. H. Patterson, vice president, of the St. Joseph Valley Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

A. A. PATTERSON, JR, President.

D. H. PATTERSON, Vice President.

Subscribed and sworn to before me this 17th day of June, A. D. 1897.

[L. S.]

SAMUEL H. KELLEY.

Notary Public, Berrien Co., Mich.

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### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini. From Buchanan, Mich., to Berrien Springs, Mich., August 1, 1889.

#### MATN LINE

MAIN LINE.	
In Michigan, from Buchanan to Berrien Springs	Milee. 10
Total length completed	.50
Gauge of track, 4 feet 8½ inches.	
Number of bridges and trestles in Michigan.	
Number.	Aggregate length, feet.
Wooden trestles11	-,
Number of crossings of highways at grade in this State.	10
Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 18837 Yes. How are they treated?	
Plank blocking. Stations.	
Number of stations on whole lines	. 4
Employés.	
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan	16 16
Classify your employés as per following list:	Number.
Brakemen Conductors Bugineers Firemen Laborers Yardmen	1 1 1 6
BEPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you.	20
Road bed and track.	
Number of track sections in Michigan  Average lengths of sections (miles)  Average number of men in each section gang	10
	Present esti- mated value.
Number of platform cars	
Number of locomotives equipped with power brakes.	1

# ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express company?

(When in operation)—American Express Co., 15c per 100 lbs. \$25.00 per month for messenger. Take freights at depot.

STATE OF MICHIGAN, COUNTY OF BERRIEN, }88.

A. A. Patterson, Jr., president, and D. H. Patterson, vice president, of the St. Joseph Valley Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

A. A. PATTERSON, JR, President. D. H. PATTERSON, Vice President.

Subscribed and sworn to before me this 17th day of June, A. D. 1897.

It. 8.

SAMUEL H. KELLEY.
Notary Public, Berrien Co., Mich.

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### ANNUAL REPORT

#### OF THE

# SUPERIOR TERMINAL RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 19, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, G. W. R. MATTESON, Providence, R. I. Vice President, C. H. HALL, Ishpeming, Mich. Secretary, W. B. BOSSON, Boston, Mass. Treasurer, W. D. REES, Cleveland, O.

#### DIRECTORS.

G. W. R. MATTESON, Providence, R. I. W. D. REES, Cleveland, Ohio. C. H. Moss, Ishpeming, Mich. C. H. HALL, Ishpeming, Mich. W. H. JOHNSTON, Ishpeming, Mich. Terms expire February 8, 1898.

## STOCKHOLDERS, STOUK AND GENERAL OFFICES.

When chartered or articles of association filed: January 27, 1863.
Number of stockholders at date of last election: 10.
Number of stockholder in Michigan at same date: 7.
Amount of full paid stock held in Michigan at same date: None full paid in Michigan.
Date of annual meeting of stockholders: Second Tuesday in February.
Fiscal year of company ends: None yet established.
General offices of the company are located at Ishpeming, Mich.

### REMARKS.

This road is an incorporation of the mine tracks of Lake Superior Iron Co. and is now operated under an agreement with the D., S. S. & A. R'y Co. by which the tracks are included in the mileage of the D., S. S. & A. R'y Co., and its earnings are taxable against that company.

# ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association \$100 00	\$65,000 00
Number of shares issued	
Total amount paid in, as per books of the company	61,200 00

#### DESCRIPTION OF ROAD.

This road was built from time to time at various periods covering a term of about 30 years, by the Lake Superior Iron Company, to facilitate shipments of its product.

Its tracks are terminal tracks at the mines of the Lake Superior Company, and, as stated above, is now operated under an agreement with the D., S. S. & Atlantic R'y Co. Gauge of track, 4 feet 8½ inches.

STATE OF RHODE ISLAND, COUNTY OF PROVIDENCE, }88.

Geo. W. R. Matteson, president, and Wm. B. Bosson, secretary of the Superior Terminal Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[Section 1]

[L. S. OF R. R.]

G. W. R. MATTESON, President. WM. B. BOSSON, Secretary.

Subscribed and sworn to before me this 13th day of April, A. D. 1897. [L. S.]

FLETCHER S. MASON, Notary Public.

#### ANNUAL REPORT

OF THE

# TOLEDO, SAGINAW & MUSKEGON RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Secretary and Treasurer, JAMES H. MUIR, Detroit, Mich. General Superintendent, F. H. McGUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Mich. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HERBERT ROBERTS, Fort Gratiot, Michigan. Master Car Builder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

CHARLES M. HAYS, Montreal, Province of Quebec.
A. B. ATWATER, Detroit, Michigan.
C. JESSE CHURCH, Greenville, Michigan.
LYMAN G. MASON, Muskegon, Michigan.
E. W. MEDDAUGH, Detroit, Michigan.
E. MIDDLETON, Greenville, Michigan.
GEORGE B. REEVE, Montreal, Province of Quebec.
Terms expire 16th April, 1897, or when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered, or articles of association filed: 25th January, 1896.
Number of stockholders at date of last election: 9.
Number of stockholders in Michigan at same date: 5.
Amount of full paid stock held in Michigan at same date: \$500.
Date of annual meeting of stockholders: The second day after the second Wednesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mish.

	GE	NERAL E	XHIBIT.	Debit	. Credit.
Total earnings from operation Total expenses, including taxes				\$132,446 8	\$94,746 91
Net deficit					•
Interest on funded debt					
Balance for the year			· · · · · · · · · · · · · · · · · · ·	\$120,149 9	7
Balance, loss from 81st December,	1895			256,666 1	3
Items not included in above as fol Advanced by the Grand Trunk I cago & Grand Trunk Railway	Railway C Company	under trai	fic agreement		. 34,459 82 . 342,856 88
Balance forwarded to next year				\$876,816 10	
•	ANALYSI	S OF CA	PITAL STOCK.		=======================================
Amount authorised by charter or	articles of	associati	ûn.		\$2,800,000 00
Amount authorised by charter or Par value of shares Number of shares issued			16,000	\$100 00	
					-
Total amount paid in, as per b					
Paid in per mile of road owned by	company	, 96 miles.			16,686 67
	ANALYSI	S OF DE	BT ACCOUNTS.		
		FUNDED 1	DHBT.		
Class, character and date of i	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, dated July	7 2, 1888	5%	July 1, 1918	New York City	\$1,649,000 00
	1	UNFUNDED	DEST.		
For what incurred.	Is t	he same to	be funded or ho	w liquidated?	Amount.
For miscellaneous					\$691,008 54
	I	RECAPITUL	ATION.		
Total funded debt Total unfunded debt				*	\$1,649,000 00 691,008 54
Total debt liabilities			•		
Amount of debt liabilities per mile	e of road,	96 miles			. 24,875 04
Total amount of stock and debt Stock and debt per mile of road [					8,940,003 54
Stock and debt per mile of road [	96 milesj.				41,041 70
G	ENERAL	BALAN	E SHEET.—Dr.		
Construction and equipment according	ount				<b>\$8,249,36</b> 5 <b>5</b> 0
Cash items: Cash Due from agents				\$329 0 2,718 9	
Other assets:					- 3,042 91
Debit balances from companies Grand Trunk Railway Company as security for advances under t Chicago & Grand Trunk Railway	and indiv of Cana raffic agre	iduals da, for in sement, pe	terest coupons p	\$22,028 4 ledged 219,591 8	
					- 323,210 83
Loss or income account					
Total	•••••				_ \$8,940,003 54

# GENERAL BALANCE SHEET.—Cr.

GENERALI BADANCE SHEET.—CE.		
Capital stock	1,600,000 00 1,649,000 00	
		\$8,249,000 00
Unfunded debt: Interest unpaidVouchers and accounts	\$286,204 98 81,588 28	
Other liabilities: Grand Trunk Railway Company, of Canada, for advances under traffic		
agreement Chicago & Grand Trunk Railway Company, for advances under traffic	219,591 88	
agreement	108,618 95	691,003 54
Total		
COST OF BOAD AND EQUIPMENT.	•	
PURCHASED BY PRESENT COMPANY.		
When purchased: August 1, 1888.		
Original cost to present company, of road and equipment		\$8,160,000 00 86,695 50 2,670 00
Total cost to date of report		3,249,365 50
Amount expended since purchase, account of construction  Amount expended since purchase, account of equipment  Total cost to date of report  Average cost per mile of road (not including sidings) 96 miles  Proportion of cost for Michigan		8,249,365 50
analysis of Earnings.—Boad all in State of Mic	CHIGAN.	
PASSENGER EARNINGS.		
Main line and branches : Local fares	\$17,408 79 950 44	
Total passenger fares	\$18,859 28	
Express and baggage	902 00	
Mails Other sources	7,274 01 87 30	
Total passenger department earnings	<del></del>	<b>\$26</b> ,572 54
Per train mile	<b>\$0 36</b>	-
Per mile of road	227 12	
PREIGHT BARNINGS.		
Main line and branches:	610 KOV 00	
Local traffic Through traffic	\$49,580 88 11,968 12	
Total traffic	\$61,549 00	
Total freight department earnings		61,549 00
Per train mile Per mile of road.	\$0 84 526 06	
Total transportation earnings, entire line		\$88,121 54
Transportation earnings per mile of road Transportation earnings per train mile	\$758 18 60	
Miscellaneous receipts from operating account, other than for transportation, as follows:	a aar	
From rents of tracks, yards and terminals	6,625 87	
Total	<b>\$</b> 6, <b>62</b> 5 87	04 740 04
Total earnings from operation of road		94,746 91
Total earnings per mile of road		809 80 64
Total earnings per train mile Total taxable earnings per mile of road in Michigan Total income from all sources		809 80 94,746 91

# ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND STRUCTURES,	-
Repairs of roadway	\$19,875 34 750 00 11,374 20
Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves  Stationery and printing.	10,974 08 3,774 50 2,227 73 135 80 82 24
Total	\$48,693 87
MAINTENANCE OF EQUIPMENT.	\$343 04
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	9,187 81 1,802 75 4,555 67 189 60 435 26 78 40 151 06
Total	\$16,693 09
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men. Freal for locomotives. Water supply for locomotives. Oil, tallow and wate for locomotives. Train service. Train service. Switchmen, flagmen and watchmen Telegraph expenses Station service Station service Station service Station supplies Car mileage—Balance Loss and damage. Injuries to persons Advertising Outside agencies. Commissions Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Total.  General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices) Taxes. Stationery and printing (general offices) Taxes.	\$2,118 78 10,988 95 10,988 95 10,988 95 10,982 73 667 67 67 67 67 67 67 67 67 67 67 67 67
Total.	1,972 96 \$4,632 82
AVW	
RECAPITULATION OF EXPENSES.	
Per cent of expenses.	
Maintenance of way and structures     36.76       Maintenance of equipment     12.60       Conducting transportation     47.18       General expenses, including taxes     3.51	\$48,693 87 16,693 09 62,427 10 4,632 82
Total operating expenses and taxes	\$132,446 88
Operating expenses and taxes per mile of road	\$1,182 03 90 182,446 88
Total proportion of expenses for Michigan	<b>132,446</b> 88
Percentage of expenses to earnings	

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Ashley, Mich., to Muskegon, Mich., August 1, 1888.

MAIN LINE.	
In Michigan, from Ashley to Muskegon	Miles.
Total length completed	96
Total length of road belonging to this company	96
Total length of road belonging to this company  Total length of road belonging to this company in Michigan 96 Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	10.07
Aggregate length of tracks in Michigan belonging to this company, computed as single track	106.07
Gauge of track, 4 feet 8½ inches.	
Number of bridges and trestles in Michigan.	Aggregate
	length, feet. 875
Wooden bridges 4 Wooden trestles 70	6,837
Total	7,212
Crossings.—Railro 1d and highway.	
What railroads cross your road at grade in this State, and at what locality? Detroit, Lansing & Northern R. R. at Sheridan and Greenville. Grand Rapids & Indiana R. R. at Cedar Springs and Muskegon. Chicago & West Michigan R'y at Sparta, Fruitport Junction and Muskegon.	
At what crossings are interlocking and derailing switches in operation? At Detroit, Lansing & Northern R. R. crossings at Sheridan and Greenville. At Grand Rapids & Indiana R. R. crossing at Cedar Springs. At Chicago & West Michigan R'y crossings at Sparta, Fruitport Junction and Muskegon	
What pattern or patterns have you adopted for use? Wharton's.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	125 8
flagmen  Number of crossings of highways over or under railroad: (over, 2; under, 2)  Number of highway bridges, 18 feet above track	4 2
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws 18837 Yes.	
How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines	26 26
Employés,	
Number of persons regularly employed on all roads operated by company, including	
officials Same in Michigan	128 128
Classify your employés as per following list:	Number.
Baggagemen	2
Brakemen	7
Engineers. Fireman	4 5 51
Shopmen	51 A
Yardmen Others	6 1 43
	•••

### REPAIRS AND RENEWALS.

### Fencing in Michigan.

How many miles of fencing have you?		192
Road bed and track.		
######################################		
Number of track sections in Michigan Average lengths of sections (miles)		12 8
Average number of men in each section gang.  Number of new ties put in whole line and sidings during the year.  Number of new ties put in track and sidings in Michigan  Average number of new ties per mile of road and sidings.		81,821 31,821 295
WAGE BE HOTHOUT OF HEM 1109 DOL HITTO OF LOGG WING STATINGS		
Bridges and culverts.		
Timber culverts replaced during the year—		
With timber—number		11
ROLLING STOCK.		
RULLING STUCK.	1	Present esti-
		nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	6	\$28,000 00
Total		\$28,000 00
Number of passenger cars—8-wheel, including official cars	2	\$7,000 00
Number of express and baggage cars	ĩ	8,600 00
Number of box freight cars.	8ō	81,670 00
Number of platform cars	52	11,570 00
Number of conductors' way cars	2	2,800 00
Total	140	\$61,640 00
	====	
Number of locomotives equipped with power brakes		6 6
What patterns of power brakes have you in use, and number of locomotives at 6 locomotives with Westinghouse air brakes; 6 cars with Westinghouse air b	d cars with c rakes.	each?
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Yes.	act No. 147,	session laws
What pattern or patterns have you adopted for use? Gould and Janney.	•	

How are your passenger cars heated? Baker heater (hot water).

## MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Train Mileage.			
		All i	n Michigan.
Miles run by passenger trains during the year			56,434
Miles run by freight trains during the year Miles run by mixed trains			90,633
Total mileage of trains earning revenue			147,243
Passenger traffic.—Road all in State of	Michigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried earning revenue Number of local passengers carried earning revenue	849 81,231		
Total number of passengers carried earning revenue	31,580		
Number of passengers carried one mile	726,387	23.0	en x0 14
Average amount received from each passenger			\$0 58.14 02.33
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers			02.54 02.58

## Freight traffic.—Road all in State of Michigan.

Freight trajic.—Roda att in State of	michigan.		
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 11,511 68,598	Miles.	Rate.
Total tens of freight carried, earning revenue	80,109		
Total mileage of through freight.  Total mileage of local freight		1,321, <b>554</b> 2,812,158	
Total freight mileage or tone carried one mile		4,133,712	
Average ton haul for through freight.  Average ton haul for local freight.		115.0 41.0	
Average ton haul for all freight		51.6	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight			\$0 76.83 00.91 01.76 01.49

# FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

## Company's material excluded.

0	Freight originating	Freight re- ceived from connecting	Total freigh	t tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
roducts of agriculture:				
Grain	10,485	217	10,702	13.36
Flour Other mill products	2,088	304	2,392	2.99
Other mill products	114	10	124	. 15
Hay	1,835	20	1,855	2.32
Tobacco Fruit and vegetables		55	55	.07
Fruit and vegetables	15,498	244	15,742	19.65
Potatoes	3,845		3,845	4.80
roducts of animals:				
Live stock	2,703	31	2,784	3.41
Dressed meats	11	2	13	.02
Other packing house products  Poultry, game and fish	129	l 30	159	.20
Poultry, game and fish	15	. 3	18	.02
	55	46	101	.18
Hides and leather	26	2	28	.03
roducts of mines:			1	
Anthracite coal	107	1,107	1.214	1.52
Bituminous coal	101	1,318	1.318	1.6
Bituminous coal				
CokeStone, sand, and other like articles	6,027	70	70	.00
Salt	0,021	111 328	6,138	7.66 .41
			""	
roducts of forest:		1		
Lumber	8,925	1,359	10,284	12.8
Logs	5,972	31	6,003	7.50
lanufactures:			i •	
Ianufactures: Petroleum and other oils		223	223	.21 .94
Sugar	· 25	718	743	.93
Iron, nig and bloom	74	1	74	.00
Ivon and stool mails		41	41	.0
Other castings and machinery	99	686	785	.9:
Cament, prick and lime	1.001	1.178	2,204	2.7
Agricultural implements	12	190	202	.2
Wagons, carriages, tools, etc.		72	72	.00
Wines, liquors and beers	591	91	682	.8.
Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture.	1,723	139	1,862	2.8
erchandise		1,729	2,736	3.41
			' '	
liscellaneous: Other commodities not mentioned above	4,489	2,923	7,412	9.2
Total tonnage.	66,886	13,223	80,109	100

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company has exclusive right on passenger trains for carrying light freight, money, etc., taking freight to and from depots at the following rates: On through merchandise—first-class rates; on local merchandise, 1½ first-class rates, and on perishable goods, 11-10 first-class rates.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 96 miles owned by Western Union Telegraph Company.

#### Fast freight lines.

Io what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car swhile in use paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transit Co. Armour Car Lines. Arms' Palace Horse Car Co. Burton Stock Car Co. Chicago, Boston & Liverpool Refrigerator Line.	Chicago, Ill.	2 00 18
Chicago Refrigerator Car Co		1
Merchants' Despatch Transportation Co	New York, N. Y.	21 52 240 51 108 73
Total		\$541 11

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### RTT.I.RD

May 25, 1896, W. H. Morehouse, trespasser, Greenville. Walking on track; no inquest. November 21, Claud Shank, brakeman, Bannister. Fell from train; no inquest.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.			Injured.			
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.	
Falling from trains		1	i				
Total		1	1				

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	2
Number of casualties purely accidental	ī
Number resulting from lack of caution, carelessness or misconduct	1
Trespassers and tramps killed or injured	1

## CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

•	Killed.	Injured.	Total.
Brakemen	1		1
Total	1		1

STATE OF MICHIGAN, Sounty of Wayne,

Almon B. Atwater, superintendent, and James H. Muir, secretary and treasurer, of the Toledo, Saginaw & Muskegon Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

A. B. ATWATER, JAMES H. MUIR,

Subscribed and sworn to before me this 26th day of March, A. D. 1897. [L. s.]

LAWRENCE F. LANG,

Notary Public, County of Wayne, State of Michigan.

### ANNUAL REPORT

OF THE

# WISCONSIN & MICHIGAN RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 10, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, S. M. FISCHER, Chicago, Ill.
Vice President, JNO. BAGLEY, Chicago, Ill.
Secretary, J. N. FAITHORNE, Chicago, Ill.
Auditor, O. A. KOSS, Chicago, Ill.
Treasurer, S. M. FISCHER, Chicago, Ill.
General Manager, J. M. FAITHORNE, Chicago, Ill.
Superintendent, A. H. CROCKER, Peshtigo, Wis.
Chief Engineer, A. M. KINSMAN, Menominee, Mich.
Superintendent of Telegraph, S. M. HARRISON, Peshtigo, Wis.
Trafic Manager, J. J. COLEMAN, Chicago, Ill.

#### DIRECTORS.

S. M. FISCHER, Chicago, Ill.
J. N. FAITHORNE, Chicago, Ill.
J. C. AMES, Chicago, Ill.
JNO. BAGLEY, Chicago, Ill.
J. J. COLEMAN, Chicago, Ill.
Terms expire, July 18, 1898.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 28, 1893.

Number of stockholders at date of last election: 51.

Number of stockholders in Michigan at same date: 3.

Amount of full paid stock hold in Michigan at same date: \$12,000.00.

Date of annual meeting of stockholders: Third Tuesday in January.

Fiscal year of company ends December 31.

General offices of the company are located at Chicago, Ill.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation.		\$109,021 06
Total earnings from operation	\$86,147 23	•===
Net income		22,873 83
Interest on funded debt	\$49,025 00	
Balance for the year	\$26,151 17 8,358 18	
Balance forward to next year	\$34,509 85	

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association.  Par value of sharee. \$100 00	\$951,500 00
Number of shares issued 9,515 Amount paid in on common Total amount paid in, as per books of the company	951,500 00 951,500 00
Paid in per mile of road owned by company	14,972 46

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	Jan. 1, 1945	Atlantic Trust Co., N. Y	\$951,000 00

### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount
For equipment		\$180,170 38 94,350 00 72,522 18
Total unfunded debt		\$347,042 56

### RECAPITULATION.

Total funded debt	\$951,000 00 347,042 56
Total debt liabilities	\$1,298,042 56
Amount of debt liabilities per mile of road, 63.55 miles	20,425 58 2,249,542 56
Stock and debt per mile of road, 63.55 miles	35,397 99

# GENERAL BALANCE SHEET.-DR.

Construction account	<b>\$1.902.000 00</b>	
Equipment account	235,060 00	
		\$2,137,060 00
Cash items:		40,101,000 00
	\$1,119 22	
Cash		
Due from agents.	4,611 24	
		5,7 <b>80 46</b>
Other assets:		
Materials and supplies.  Debit balances from companies and individuals.	\$1,998 <b>83</b> 70,244 42	
Debit balances from companies and individuals	70 244 42	
Poore paramode from companies and marriageme	10,541 15	72.242 75
		12,500 19
m-a-1		<b>80.042.000.04</b>
Total		\$2,215,033 21

# GENERAL BALANCE SHEET.—Cr.

Capital stock.	\$951,500 00 951,000 00	1.902.500 00
Unfunded debt: Interest unpaid. Notes payable Vouchers and accounts.	<b>\$59.850 00</b>	1,902,300 00
Vouchers and accounts. Other liabilities. Profit and loss or income accounts.	46,920 04 34,509 85	
Total		312,533 21 \$2,215,033 21

# COST OF ROAD AND EQUIPMENT.

### PURCHASED BY PRESENT COMPANY.

When purchased: January 1, 1895. Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment		\$1,620,000 00 282,000 00 122,560 00
Total cost to date of report		\$2,024,560 00
Average cost per mile of road (not including sidings) 63.55 miles  Proportion of cost for Michigan		31,826 28 979,077 22
CHARGES AND CREDITS TO PROPERTY DURING THE YEAR	AR.	
Main line: Extensions and new sidings New cars		\$240,000 00 122,560 00
Total		\$362,560 00
Branches: Extensions and new sidings.		42,000 00
Total		\$42,000 00
Total charges to property account as above.		404,560 00
Net addition to property account.		\$404,560 00
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.		
PASSENGER EARNINGS.  Main line and branches:		
Local fares \$\times \tag{Through fares}	3,413 <b>6</b> 7 421 35	
Total passenger fares	3,835 02	
Express and baggage	56 25 688 50	
Total passenger department earnings		\$4,579 77
Per train mile	\$0 23 143 13	
Main line and branches: Local traffic 1 Through traffic 1	7,533 74 8,636 02	•
Total traffic		28,169 76
	3.363 69	20,100 10
Total freight department earnings		29,533 45
Per train mile	\$1 31 922 92	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGER EARNINGS.  Main line and branches:		
Local fares	0,614 32 1,311 88	
Total passenger fares.		\$11,926 20
Express and baggage	\$152 19 1,398 60	
Total passenger department earnings		13,476 99
Per train mile	\$0 28 186 99	

# PRETABLE BY BARRINGS Main line and branches: Local traffic.... \$52,750 28 35,166 85 -----Total traffic \$87,917 13 Other sources, freight department Total freight department earnings 95,544 07 Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile \$100 021 08 1.512 61 Total earnings from operation of road..... \$34,113 22 1,066 05 80 34,113 22 \$109,021 06 Total income from all sources Proportion of income for Michigan.... 34.113 22 ANALYSIS OF EXPENSES. MAINTENANCE OF WAY AND STRUCTURES. Repairs of roadway Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph \$15,409 54 61 58 78 56 1 96 525 05 522 56 \$16,594 25 MAINTENANCE OF EQUIPMENT. \$1,302 57 3,576 01 584 55 3,862 61 947 78 Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars. Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools Other expenses Superintendence... 12 43 \$10,285,90 CONDUCTING TRANSPORTATION. \$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86 2,168 68 Supernizendence. Engine and roundhouse men. Fuel for locomotives. Water supply for locomotives. Oll, tallow and waste for locomotives. Other supplies for locomotives. Other supplies for locomotives. Train service. Train supplies and expenses. Telegraph expenses. Station service. Station supplies Switching charges—balance. 216 06 3,168 66 555 90 1,832 90 46 02 51 75 322 50 162 43 7,371 52 911 65 698 42 77 65 oss and damage Clearing wrecks Advertising. Outside agencies Commissions. Bents for tracks yards and terminals. Rent of buildings and other property Stationery and printing. Other expenses \$46,161 81

## GENERAL EXPENSES.

Salaries of general officers.	\$4,945 35
Salaries of clerks and attendants General office expenses and supplies	3,237 88 718 40
Insurance	395 54
Law expenses. Stationery and printing (general offices)	587 60- 1,007 49-
Other expenses [Interest and discount.	1,302 37 750 04
Stationery and printing (general offices)  Other expenses   Interest and discount	160 60
Total	\$13,105 27
RECAPITULATION OF EXPENSES. Per cent of expenses.	
Maintenance of way and structures   19     Maintenance of equipment   12	\$16,594 25 10,285 90 46,161 81
Conducting transportation 54	46,161 81
General expenses, including taxes	13,105 27
Total operating expenses and taxes	\$86,147 23
Operating expenses and taxes per mile of road	
18,290 passenger miles; 51,114 freight miles	
PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGAN.	
Main line	\$26,705 64
Total proportion of expenses for Michigan.	\$26,705 64
Percentage of expenses to earnings	
Net earnings per mile of road	\$317 50 23
Net earnings per train mile	
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini:	
From Peshtigo, Wis., to Faithorn Junction, Mich., January 1, 1895.	
From Peshtigo, Wis., to Faithorn Junction, Mich., January 1, 1895. From Fisher, Mich., to Ingalls, January 1st, 1895. From Peshtigo Harbor, Wis., to Peshtigo, Wis., September 1, 1896.	
MAIN LINE. Miles.	Miles.
In Michigan, from State Line to Faithorn Junction 22 28	
In Wisconsin, from Peshtigo Harbor to State Line	
Total length completed	57.10
BRANCHES.	
Ingalls, from Fisher to Ingalls, Mich.         5.00           Hammond, from Hammond to end.         1.45	
Total length of branches owned by company	6.45
Total length of branches owned by company in Michigan	
Total length of road belonging to this company	63.55
Total length of road belonging to this company in Michigan	
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	
Aggregate length of tracks in Michigan belonging to this company, computed as single track	34.28
Gauge of track, 4 feet 8% inches.	
64	

# Proprietary or leased roads operated by this company.

Name, description and length of each: C. M. & St. P. R'y, between Bagley Junction, Wis., and Menominee, Mich	Total miles. 8.52	In Michigan. 1.23
Total	8.52	1.22
Total miles operated by the company	72.075	31.959
If north of parallel 44 of latitude: Yes.		
Give date road commenced to be built: April 1894.		
Give date road completed: Dec. 31, 1895.		
Give date road commenced to be operated: January 1, 1895.		•
Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.		
Give exact number of miles. 54.1.		
Number of bridges and trestles in Michigan.		Aggregate length, feet.
Iron bridges, ¼ in Michigan	1 6	385 303
Total	7	688
Crossings.—Railroad and highway.		
Number of crossings of highways at grade in this State		8
Are your frogs and guard rails blocked as required by act 174, session laws 188	31	
How are they treated? Blocked with plank.		
Stations.		
Number of stations on whole lines		9
Same in Michigan		
Employés.		
Number of persons regularly employed on all roads operated by compan officials		<b>95</b> 25
Same in Michigan		
Classify your employés as per following list: Baggagemen		Number.
Brakemen		1 8 4 5 5
ConductorsEngineers		4 5
Firemen		5
Laborers		44 21
8hopmen		
REPAIRS AND RENEWALS.		
Fencing in Michigan.		
Give the number of miles required to complete fence both sides of your track	in Michigan.	48
Road bed and track.		
Number of track costions in Michigan		
Number of track sections in Michigan		5 6
Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year	· · · · · · · · · · · · · · · · · · ·	4
Number of new ties put in whole line during the year		8,065
Number of new ties put in track in Michigan		41

## ROLLING STOCK.

ROLLING BIOCA.	•	
		Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender  Number of locomotives of 20 to 30 tons weight, exclusive of tender  Number of locomotives of 10 to 20 tons weight, exclusive of tender	8 2 2	\$15,000 00 8,000 00 8,000 00
Total	7	<b>\$31,000 00</b>
Number of passenger cars—12-wheel, including official cars	2 469 110 2 4	\$6,000 00 199,325 00 38,500 00 1,500 00 1,200 00
Total	587	\$277,525 00
Number of locomotives equipped with power brakes  Number of passenger train cars equipped with power brakes  Number of freight cars equipped with power brakes		5 2 10
What patterns of power brakes have you in use, and number of locomotives are each?	d cars with	16
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Yes.	act No. 147, s	ession laws
What pattern or patterns have you adopted for use? Chicago and Ludlow.		

How are your passenger cars heated? Coal stoves.

# MILEAGE, TRAFFIC, ETC.

F-41 V T	- <b>M</b>
48,290	21,407 22,659
99,404	44,066
Miles.	Rate.
	\$0 02.78 03.11
- )	
. 18	55
	02.73 03.11 03.06 01.89
	\$0 02.78 02.80
3	
	27 02.78 02.30 02.09 01.89
	51,114 99,404 Miles. 2 48,054 3 341,296 0 18

Freight traffic.—Entire lines.	. Miles.	Rate
Number of tons of through freight carried, earning revenue 53,97.  Number of tons of local freight carried, earning revenue 65,47.	1	
Total tons of freight carried earning revenue 119,44	5	
Total mileage of through freight	1,786,440 1,386,918	
Total freight mileage or tons carried one mile	8,178,358	
Average ton haul for through freight  Average ton haul for local freight	33.10 21.03	
Average ton haul for all freight	26.58	
Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average ton receipts per mile, for local freight  Average receipts ton per mile for all freight		\$0.74 0.19 0.38 0.28
Freight traffic.—In State of Michigan.		
Number of tons of through freight carried, earning revenue 24,100 Number of tons of local freight carried, earning revenue 41,345		
Total tons of freight carried, earning revenue 65,446	3	
Total mileage of through freight	368,971 389,085	
	000,000	
Total freight mileage or tons carried one mile		
-	758,056 15.81	
Total freight mileage or tons carried one mile	758,056 15.81 9.41	

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

	Freight originating	Freight received from connecting	Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture: Grain Flour Other mill products	1 31	8,990 803 962 230	9,027 834 1,052 410	7.08 .65 .82	
Products of animals: Live stock Dressed meats Other packing house products Poultry, game and fish Wool	22	18	18 80 17 22 58	.14	
Products of mines: Bituminous coal Stone, sand, and other like articles	9,884	5,264	5,264 9,884	4.10 7.70	
Products of forest: Lumber Logs Bhingles	45,100	8,297 45 437	18,187 45,145 29,787	10.27 35.16 23.16	
Manufactures: Sugar Iron, pig and bloom Iron and steel rails Other castings and machinery Cement, brick and lime Wines, liquors and beers Household goods and furniture	25 138 112 82	1,104 231 170 80 739	1,104 256 308 192 821 89	.86 .19 .24 .15 .64	
Merchandise	7,057	826	7,883	6.14	
Miscellaneous: Other commodities not mentioned above	2,014	1,007	3,021	2.36	
Total tonnage	104,081	24,378	128,409	100	

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

Commoditor	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture: Grain Flour Other mill products Hay		8,202 603 837 312	8,295 603 837 396	9,30 .67 .93	
Products of animals: Live stock Dressed meats Other packing house products	17	15 72 29	82 72 29	} .15	
Products of mines: Stone, sand, and other like articles	150		150	.17	
Products of forest: Lumber Logs Shingles	5,974 33,900 22,630	5,987 156 329	11,961 34,056 22,960	13.41 88.18 25:74	
Manufactures: Sugar Iron, pig and bloom Castings and machinery Cement, brick and lime	30	1,108 210 356 318	1,106 240 356 360	1.24 .27 .40 .42	
Merchandise	4,770	1,046	5,816	6.52	
Miscellaneous: Other commodities not mentioned above	1,926		1,926	2.16	
Total tonnage	69,617	19,578	89,195	100	

## ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Local merchandise, 1½ times first class rates; through merchandise, 11-10 times first class rates; beer, etc., second class rates. Take freights at depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 72 miles. Western Union Telegraph Co.

STATE OF ILLINOIS, COUNTY OF COOK, }88.

S. M. Fischer, president and treasurer, of the Wisconsin & Michigan Railway Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF E. R.]

Signed.

S. M. FISCHER.

[L. S. OF E. E.] Signed, Subscribed and sworn to before me this 8th day of July, A. D. 1897.

ed and sworn to before me this 5th day of July, A. D. 1896 [L. S.]

ROBERTA M. SHAW, Notary Public.

### ANNUAL REPORT

OF THE

# WABASH RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed March 22, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, O. D. ASHLEY, New York, N. Y. Vice Presidents:

EDGAR T. WELLES, New York, N. Y.
J. RAMSEY, JR., St. Louis, Mo.
Secretary, J. C. OTTESON, New York, N. Y.
Auditor, D. B. HOWARD, St. Louis, Mo.
Treasurer, F. L. O'LEARY, St. Louis, Mo.
General Manager, J. RAMSEY, JR., St. Louis, Mo.
General Superintendent, H. L. MAGEE, St. Louis, Mo.
Division Superintendents:
E. A. GOULD, Peru, Ind.

E. A. GOULD, Peru, Ind.

J. L. GOODRICH, Chicago, Ill.

W. A. GARRETT, Moberly, Mo.

Chief Engineer, W. S. LINCOLN, St. Louis, Mo.

Superintendent of Telegraph, G. C. KINSMAN, Decatur, Ill.

General Passenger Agent, C. S. CRANE, St. Louis, Mo.

General Freight Agent, S. B. KNIGHT, St. Louis, Mo.

Attorney, WELLS H. BLODGETT, St. Louis, Mo.

## DIRECTORS.

O. D. ASHLEY, New York, N. Y.
GEO. J. GOULD, New York, N. Y.
EDGAR T. WELLES, New York, N. Y.
HENRY K. MCHARG, New York, N. Y.
C. J. LAWRENCE, New York, N. Y.
P. B. WYCHOFF, New York, N. Y.
S. C. REYNGLDS, Toledo, Ohio.
EDWIN GOULD, New York, N. Y.
THOS. H. HUBBARD, New York, N. Y.
JOHN T. TERRY, New York, N. Y.
RUSSELL SAGE, New York, N. Y.
C. C. MACRAE, LONDON, Eng.
FRANCIS PAVY, LONDON, Eng.
Terms expire second Tuesday in September, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 31, 1889.
Date of annual meeting of stockholders: Second Tuesday in September.
Fiscal year of company ends: June 30.
General offices of the company are located at St. Louis, Mo.

GE	NERAL E	XHIBIT.	Debit.	Credit.
Total earnings from operation				
Total earnings from operation			\$9,571,434 8	)
Net income				\$2,586,691 15
Interest on funded debt				,
Balance, deficit			\$200,554 2	- 2,787,245 <b>39</b>
Balance for the year, deficit			\$200,554 2	
Balance forward to next year, transferre	ed to profi	t and loss		\$200,554 24
ANALYSI	S OF CA	PITAL STOCK.		
Amount authorized by charter or articles of	associati	on		\$52,000,000 00
Par value of shares			00 00	
Amount authorised by charter or articles of Par value of shares			\$28,000,000 00 24,000,000 00	9
Total amount paid in as per books of the				
Paid in per mile of road owned by company				
E and in per initie of foad owned by company	, 1,001 mm	00		
ANALYSI	s of de	BT ACCOUNTS.		
	FUNDED 1	DEBT.		
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st mortg. bonds, Wabash R. R. Co	5%	1939	New York	\$31,664,000 00
2d mortg. bonds, Wabash R. R. Co	5≼ 6≰*	1939	New York New York New York New York New York	14,000,000 00
1st mortg. bonds, St. Charles Bridge	6%	1908	New York	1,000,000 00
Debenture bonds 1st mortg. bonds, St. Charles Bridge. 2d mortg. bonds, St. Charles Bridge. 1st mortg. bonds, Boone Co. & Boonville	7%	1903		l .
R. R. 1st mortg. bonds, Brunswick & Chillicothe		1903		
B. R. 1st mortg. bonds, St. Louis C. B. & O. R. R.	1 6%	1903 1908	New York New York New York	304,500 00
1st mortg. bonds, St. Louis C. B. & C. R. B.	5≴	1941	New York	577,000 00 3,500,000 00
Total funded debt				\$81,534,000 00
* If earned.				
1	RECAPITUI	ATION.		
Total funded debt				\$81,534,000 00
Total debt liabilities				\$81,534,000 00
Amount of debt liabilities per mile of road Total *mount of stock and debt				48,000 00 133,534,000 00 80,722 00

# GENERAL BALANCE SHEET.-Dr.

Cost of road, equipment and appurtenances		\$188, <b>483</b> ,500 <b>00</b>	
Other investments: Capital stock, American Befrigerator Transit Co. Capital stock, Union Depot, Keokuk Capital stock, Union Depot, Kansas City Capital stock, Union Elevator Co., Council Bluffs Bonds, Peru & Detroit R'y Co. Bonds, Des Moines Union R'y Bonds, St, Louis C. B. & O. R'y. Other investments	\$121,700 00 8,000 00 14,502 00 5,000 00 90,000 00 36,055 54 83,000 00 2,564 68		
Cash items: Cash Bills receivable Due from agents	\$486,757 83 18,992 94 88,854 80	805.822 22 589,604 57	
Other assets: Materials and supplies Debit balances from companies and individuals	\$625,756 92 825,429 18	1,451,186 05	
The purchasing committee		185,827 42 871,265 44 990,672 15	
Total		\$187,827,877 <b>8</b> 5	
GENERAL BALANCE SHEET.—Cr.			
Capital stock Funded debt: Unfunded debt: Interest unpaid Notes payable Vouchers and accounts.	\$760,780 7 816,782 4 1,649,206 5	_ 81,584,000 00 4 4 3	
Other liabilities.			
Profit and loss or income accounts			
Total		@197 997 977 SK	
COST OF ROAD AND EQUIPMENT.	•		
	•••••		
COST OF ROAD AND EQUIPMENT.			
COST OF ROAD AND EQUIPMENT. PURCHASED BY PRESENT COMPANY.	ago R. R.		
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction Montpelier & Chica Total cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles.  Proportion of cost for Michigan, 75.9.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAT PASSENGER BARNINGS.	ago R. R.		
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PERSENT COMPANY.  Original cost to present company, of road and equipment	\$88,472 ( 4,710 E	\$129,938,500 00 3,500,000 01 138,438,500 00 80,772 38 6,188,697 08	
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PERSENT COMPANY.  Original cost to present company, of road and equipment Amount expended since purchase, account of construction Montpelier & Chica Total cost to date of report.  Average cost per mile of road (not including sidings) 1,895.2 miles.  Proportion of cost for Michigan, 75.9  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER BARNINGS.  Main line and branches:  Total passenger fares Express and baggage.	\$88,472 (4,710 t 7,273 (2,195 (	\$129,938,500 00 3,500,000 00 133,535,500 90,772 33 6,138,697 06	
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  Original cost to present company, of road and equipment Amount expended since purchase, account of construction Montpelier & Chical cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles  Proportion of cost for Michigan, 75.9.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER MARNINGS.  Main line and branches:  Total passenger fares  Express and baggage  Mails  Other sources.  Total passenger department earnings.	\$88,472 ( 4,710 5 7,273 ( 2,195 (	\$129,933,500 00 3,500,000 01 138,433,500 00 90,772 33 6,138,697 08	
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Montpelier & Chica Total cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles.  Proportion of cost for Michigan, 75.9  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGATION OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF C	\$88,472 (4,710 t 7,273 (2,196 (	\$129,938,500 00 3,500,000 00 138,438,500 00 80,772 38 6,188,697 08	
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Montpelier & Chica Total cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles.  Proportion of cost for Michigan, 75.9  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGATION OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF COST OF C	\$88,472 (4,710 t 7,273 (2,196 (	\$129,938,500 00 3,500,000 00 138,438,500 00 80,772 38 6,188,697 08	
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Montpelier & Chical Cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles.  Proportion of cost for Michigan, 75.9.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGATION OF ASSENGER HARNINGS.  Main line and branches:  Total passenger fares Express and baggage.  Mails  Other sources.  Total passenger department earnings  Per mile of road.  FREIGHT EARNINGS.	\$88,472 (4,710 t 7,273 (2,195 (2)10,865 t 10,865	\$129,938,500 00 3,500,000 00 133,532,500 90,772 33 6,138,697 06 	
COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  Original cost to present company, of road and equipment Amount expended since purchase, account of construction Montpelier & Chical cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles  Proportion of cost for Michigan, 75.9.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA  PASSENGER BARNINGS.  Main line and branches:  Total passenger fares Express and baggage Mails Other sources.  Total passenger department earnings  Per mile of road  FREIGHT EARNINGS.  Main line and branches:  Total traffic Other sources, freight department.	\$88,472 (4,710 5 7,273 (2,196 (10,866 8 10,866 8 \$3,045 4	\$129,938,500 00 3,500,000 00 138,38,500 00 90,772 38 6,138,697 08 	

# ANALYSIS OF EARNINGS.—ENTIRE LINES.

Passenger Barnings.	
Main line and branches:       \$2,966,035 78         Total passenger fares       \$20,006 12         Express and baggage       300,108 12         Mails       507,027 90         Other sources       78,253 45	
Total passenger department earnings	\$3,871,425 26
Per train mile	
FREIGHT BARNINGS.	
Main line and branches:  Total traffic	•
Total freight department earnings	8,091,883 13
Per train mile	
Total transportation earnings, entire line	\$11,968,306 39
From other sources 194,817 56	
Total	12,158,125 95
Distribution of miscellaneous earnings between main line and leased or proprietary roads  Detroit Elevator Commission	Proportion or Michigan.
Total earnings from operation of road. \$6,178.76 Total earnings per mile of road. \$14.08 Total earnings per train mile. \$1.14.08 Proportion of taxable earnings for Michigan. \$47,806.67 Total taxable earnings per mile of road in Michigan. \$4,320.58	\$11,968,805 89
Total earnings from operation of road.         \$6,178.76           Total earnings per mile of road.         \$114.08           Total earnings per train mile.         114.00           Proportion of taxable earnings for Michigan.         347,606.67           Total taxable earnings per mile of road in Michigan.         4,320.58           Total income from all sources	
	\$11,963,308 89
Total income from all sources	\$11,963,308 89
Total income from all sources	\$11,963,308 89
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway. Renewals of rails Renewals of ties. Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses	\$853,150 19 194,624 35 257,810 41 187,344 75 47,200 27 160,167 38 17,105 30 1,129 76 98,025 67
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Renewals of teals Repairs and renewals of bridges and culverts Repairs and renewals of feaces, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of docks and wharves Repairs and renewals of docks and wharves	\$853,150 19 194,624 35 257,810 41 187,344 75 47,200 27 160,167 38 17,105 30 1,129 76 98,025 67
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway. Renewals of rails Renewals of ties. Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses	\$853,150 19 194,624 35 257,810 41 187,344 75 47,200 27 160,167 38 17,105 30 1,129 76 98,025 67
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway. Renewals of rails Repairs and renewals of bridges and culverts. Repairs and renewals of bridges and culverts. Repairs and renewals of bridges and fixtures. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses  Total	\$853,150 19 194,624 36 187,340 67  \$853,150 19 194,624 36 197,344 75 47,290 27 160,188 32 671 38 17,15 30 1,129 76 98,025 67 \$1,817,290 35  \$104,640 34 502,931 72 387,887 86 496,038 12 12,716 71 75,881 87 65,386 17

### CONDUCTING TRANSPORTATION.

CONDUCTING TRANSPORTATION.		
Superintendence		\$113,580 40
Engine and roundhouse men		861,755 29
Fuel for locomotives		549,615 25 62,605 67
Water supply for locomotives		62,605 67
Fuel for locomotives Water supply for locomotives Oil, tallow and wate for locomotives Other supplies for locomotives		85,766 68 8,227 10
Train service.		MEN NAK MA
Train supplies and expenses		54,443 25 422,255 28 169,253 44
Switchmen, flagmen and watchmen		422,255 28
Telegraph expenses		169,253 44
Station service		1.000.000 04
Station supplies		41,194 51 856,752 04
Hire of equipment		856,752 04 9,748 66 75,690 58 83,732 15
Loss and damage		75,690 58
Loss and damage		83,732 15
Advertising		91,099 19
Outside agencies		250,007 91
Commissions.  Bents for tracks, yards and terminals		42,149 17 421,599 08
Rent of buildings and other property		17,718 02
Rent of buildings and other property Stationery and printing Other expenses		17,718 02 58,330 91
Other expenses		69,893 48
Total		ek 961 945 40
1041		40,001,0ED 40
		<del></del>
General Expenses.		
Salaries of general officers		\$44,084 89
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies.		38.894 71
General office expenses and supplies.		38,894 71 1,535 44
insurance		20.254.78
Law expenses Stationery and printing (general offices)		51,240 84 14,577 68 87,998 72
Other expenses		97 008 72
Other expenses		524,238 60
Total		<b>\$742,825 66</b>
RECAPITULATION OF EXPENSES.		
P	er cent of	
P	expenses.	#1 017 000 OF
Maintenance of way and structures.	expenses.	\$1,817,290 35
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation	expenses.	\$1,817,290 35 1,649,978 39 5,361,345 40
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation	expenses.	\$1,817,290 35 1,649,978 89 5,361,345 40 742,825 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes	18.99 17.24 56.01 7.76	\$1,817,290 35 1,649,978 39 5,381,345 40 742,825 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation	expenses.	\$1,817,290 35 1,649,978 39 5,361,345 40 742,825 66 \$9,571,434 80
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	18.99 17.24 56.01 7.76	\$9,571,434 80
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	18.99 17.24 56.01 7.76	4,948 41
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes	18.99 17.24 56.01 7.76	\$9,571,434 80
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	18.99 17.24 56.01 7.76	4,948 41
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	18.99 17.24 56.01 7.76	4,948 41 91.28
Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue  Proportion of operating expenses and taxes for Michigan, main line	18.99 17.24 56.01 7.76	4,948 41 91.28
Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue  Proportion of operating expenses and taxes for Michigan, main line	18.99 17.24 56.01 7.76	4,948 41 91.28
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  80.01	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures. Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue  Proportion of operating expenses and taxes for Michigan, main line	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  80.01	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line  80.01 Net earnings per mile of road, entire line Net earnings per train mile, entire line	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  80.01	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line  Net earnings per mile of road, entire line  DESCRIPTION OF ROAD,	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line  Net earnings per mile of road, entire line  DESCRIPTION OF ROAD,	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:	18.99 17.24 56.01 7.76 100	\$9,571,434 80 4,948 41 91.28 \$292,694 84
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini: From Detroit to Butler, 1881.	18.99 17.24 56.01 7.76 100	4,948 41 91.28
Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini: From Detroit to Butler, 1881.	18.99 17.24 56.01 7.76 100	\$9,571,434 80 4,948 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.	18.99 17.24 56.01 7.76 100	\$9,571,434 80 4,948 41 91.28 \$292,694 84  Milee. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.	18.99 17.24 56.01 7.76 100	\$9,571,434 80 4,948 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line  Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.  Total length completed  Total length of road belonging to this company in Michigan.	18.99 17.24 56.01 7.76 100	\$9,571,434 80 4,948 41 91.28 \$292,694 84  Milee. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line  Net earnings per mile of road, entire line  Net earnings per train mile, entire line  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line  Total length completed  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above	18.99 17.24 56.01 7.76 100	\$9,571,434 80 4,948 41 91.28 \$292,694 84  Milee. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per mile of road Operating expenses and taxes per mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line Net earnings per train mile, entire line  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	18.99 17.24 56.01 7.76 100 \$1,235 34 22.81	\$9,571,434 80 4,948 41 91.28 \$292,694 84 Milee. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.  Total length completed  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, compute	18.99 17.24 56.01 7.76 100 61,235 34 22.81 75.9 38.5	\$9,571,434 80 4,943 41 91.28 \$292,694 84  Miles. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per mile of road Operating expenses and taxes per mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line Net earnings per train mile, entire line  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	18.99 17.24 56.01 7.76 100 61,235 34 22.81 75.9 38.5	\$9,571,434 80 4,948 41 91.28 \$292,694 84 Milee. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes.  Total operating expenses and taxes per mile of road.  Operating expenses and taxes per mile of road.  Proportion of operating expenses and taxes for Michigan, main line.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.  Total length of road belonging to this company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, compute track.	18.99 17.24 56.01 7.76 100 61,235 34 22.81 75.9 38.5	\$9,571,434 80 4,943 41 91.28 \$292,694 84  Miles. 75.9
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue  Proportion of operating expenses and taxes for Michigan, main line  Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.  Total length completed  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, compute	18.99 17.24 56.01 7.76 100 61,235 34 22.81 75.9 38.5	\$9,571,434 80 4,943 41 91.28 \$292,694 84  Miles. 75.9

# Proprietary or leased roads operated by this company.

Name description and largeth of each.	Total miles.	In Michigan.
Name, description and length of each: Detroit Union Depot & Terminal Association tracks Total miles operated by this company	1,979.6	4.6 80.5
Number of bridges and trestles in Michigan.		Aggregate length, feet.
Wooden bridges Iron bridges Combination bridges. Wooden treatles		326 184 194 4,768
Total	119	5,472
Draw bridges in Michigan.		
How many on your line: One—not in operation.		
Where located, when built, and length of draw span: Over Rouge River, 1/2 mile west of Dearborn Road, Detroit. Draw span, 1 ber, 1893.	84 feet. Fini	shed Novem-
Character of structure: Through iron truss.		
Material of which constructed: Iron trues on masonry—7x7 oak ties.		
Height above water, and depth of water under bridge: Ten feet above, 15 feet under water.		
How swung, by engine or hand power? Hand power.		
Approaches straight or curved? Straight.		
Do you require all trains to come to full stop before crossing a draw, and how the draw is not yet in operation. Rails are continuous. No signals require	w are they signed.	naled?
Crossings.—Railroad and highway.	•	
What railroads cross your road at grade in this State, and at what locality?		
Lake Shore & Michigan Southern R. R. at Delray, Raisin Center and Adris Michigan Central R. R. at Delray and West Detroit. Flint & Pere Marquette R. R. at Romulus. Toledo, A. A. & Northern Michigan R. R. at Milan. Cincinnati, Jackson & Mackinaw R. R. at Britton.	n.	
At what crossings are interlocking and derailing switches in operation?  L. S. & M. S.—Delray, Raisin Center and Adrian.  Michigan Central—Delray and West Detroit.  Flint & Pere Marquette—Romulus.		
What pattern or patterns have you adopted? Saxby and Farmer, made by Union Switch & Signal Co.		
Number of crossings of highways at grade in this State	es or flagmen	159
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws 18 Yes.	837	
How are they treated? Blocked with plank.		
Stations.		
Number of stations on whole lines		466 16
Dame in widingen		

## Employés.

Number of persons regularly employed of Classify your employée as per followin Baggagemen	g list:			7, <b>67</b> 8 Number. 12
Brakemen Conductors Engineers Firemen				24 24 20 20 189 26 56
Laborers Shopmen Others				189 26 56
	REPAIRS AND RENEWALS.			
	Fencing in Michigan.			FT 400
How many miles of fencing have you?.  Give the number of miles required to cand the counties in which needed:  None. All fenced except in station is	complete fence both sides o			75.198
	Road bed and track.	•		
Number of track sections in Michigan Average lengths of sections, miles	n gangchigan	*		12 6.9 7.5 25,879
Average number of new clos per mine				
	Bridges and culverts.			
Timber culverts replaced during the year with iron pipe				Number. 2 6 2
New bridges built during the year.—N				
Location.	Kind.	Material.	Month built.	Feet in length.
One quarter of a mile west of Seneca.	Wooden	Piling	June, 1896	10% ft.
Number of locomotives of more than 8 Number of locomotives of 20 to 30 tons	weight, exclusive of tende	tender	Number. m 380 4	resent esti- lated value. 11,500,000 00 114,000 00
Total			418 8	1,614,000 00
Number of passenger cars—12-wheel, in Number of passenger cars—8-wheel, in Number of express and baggage cars Number of box freight cars Number of stock cars Number of platform and ore cars Number of conductors' way cars Other cars			5,189 225	\$350,000 00 125,000 00 100,000 00 1,175,000 00 200,000 00 500,000 00 40,000 00 8,000 00
Total			18,024	2,498,000 00
Number of locomotives equipped with Number of passenger-train cars equip Number of freight cars equipped with	power brakes ped with power brakes power brakes			402 327 2,117
What patterns of power brakes have yeach? All cars with Westinghouse. Locon				

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885, as amended by Act No. 88, Session Laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould.

How are your passenger cars heated? Hard coal stoves and hot water.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Intire lines, I	Michigan.
Miles run by passenger trains during the year  Miles run by freight trains during the year	4,780,808 5,705,260	191,212 228,210
Total mileage of trains earning revenue	10,485,568	419,422
Passenger traffic.—Entire lines.		
Numbers. Total number of passengers carried, earning revenue	Miles.	Rate.
Number of passengers carried one mile		\$0 91.80 02.098 01.910
Passenger traffic.—In State of Michigan (Estimated).		
Total number of passengers carried, earning revenue	. Miles.	Rate.
Average distance carried. Average amount received from each passenger. Average receipts per passenger per mile for all passengers. Estimated cost of carrying each passenger one mile		\$0 91.80 02.098 01.910
Freight traffic.—Entire lines.		
Total tons of freight carried, earning revenue. 5,879,674 Total freight mileage or tons carried one mile	1,142,477,577 194.8	Rate.
Average amount received for each ton haul Average receipts ton per mile, for all freight Estimated cost of carrying one ton one mile		\$1 38.98 00.689 00.517
Freight traffic.—In State of Michigan (Estimated).		
Total tons of freight carried, earning revenue 285,187 Total freight mileage or tons carried one mile Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for all freight Estimated cost of carrying one ton one mile		Rate. \$1 88.98 00.689 00.517

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freigl	nt tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain			1,178,979 117,622	20.00 2.00
Other mill products		j	121.705	2.0
Other mill products			79,197	1.8
Tobacco			6,217	0.1
Cotton			20,592	Ŏ.â
Fruit and vegetables			87,182	1.4
Products of animals:	•			
Live stock			840,607	5.7
Dressed meats			126,675	2.1
Other packing house products			156,163 3,240	2.6
Wool			84,079	0.5
111 dos and 10 senter			02,015	0.5
Products of mines:		l		
Anthracite coal			114,371	1.9
Bituminous coal			1,432,119	24.8
Coke			28,823 4,843	0.44
OresStone, sand and other like articles			121,490	2.0
Products of forest:		ĺ		
Lumber			287,510	4.8
Other articles			116,978	1.9
Manufactures:				
Petroleum and other oils			58,782	1.0
Sugar			42,157	0.7
Iron, pig and bloom			28,044	0. <b>3</b>
Iron and steel rails Other castings and machinery			6,687 29,915	0.5
Bar and sheet metal			30.586	0.5
Cement, brick, and lime			101.554	1.7
Apricultural implements			12.558	0.2
Wagons, carriages, tools, etc			8,715	Ŏ. <b>1</b>
Wines, liquors and beers			42,289	0.7
Household goods and furniture			15,049	0.2
Merchandise			408,215	6.9
Miscellaneous: Other commodities not mentioned above			721,896	12.2
Total tonnage			5,879,674	100.

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.-ESTIMATED.

#### Company's material excluded.

g 34	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain Flour			47,159 4,705	20.0 2.0
Other mill products			4,868	2.0
Hay				1.8
Tobacco.			1 249	0.1
Cotton		l	824	0.8
Fruit and vegetables			8,487	1.4
Products of animals:	•			
Live stock			13.624	5.7
Dressed meats			5'087	2.1
Other packing house products		l	1 6.246 [	2.6
Wool			180	ō.ŏ
Hides and leather			1,863	0.5
Products of mines:		<u>Į</u>		
Anthrecite coal		ł	4,575	1.9
Bituminous coal			57,285	24.8
Coke			1,153	0.4
Ores			l 1941	0.0
Stone, sand and other like articles			4,860	2.0
Products of forest:			1 1	
Lumber			11,500	4.8
Other articles			4,679	1.9
Manufactures:			! !	
Petroleum and other oils			2,849	1.0
Sugar		l	1.686	0.1
Iron, pig and bloom		!	922	0.1
Iron and steel rails.			267	0.1
Other castings and machinery		I	1.197	0.
Bar and sheet metal			1,223	0.
Coment, brick and lime			4,062	1.
Agricultural implements			502 349	0.2 0.2
Wagons, carriages, tools, etc.			1.690	0.1 0.1
Wines, liquors and beers. Household goods and furniture.			1,602	. 0.2
		i .	1	
[erchandise			16,829	6.1
Miscellaneous: Other commodities not mentioned above			28,873	12.2
Total tonnage			235,187	100

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Pacific Express Co.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

206.5 miles on Detroit Division. Western Union Telegraph Company.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigau, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Name of company.	General office.	Amount paid.
Wagner Palace Car Co	New York, N. Y.	(*)

^{*} Not kept separate for Michigan.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Blue Line. Red Line. White Line. Empire Line.		
Canadian Pacific Despatch		Not kept
Brie Despatch Great Eastern Line Merchants' Despatch Transportation Co		for Michigan.
National Despatch Line Hoosac Tunnel Line Lackawanna Line	[	

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED AND INJURED.

January 15, Jno. Mitchell, switchman, Delray. Coupling cars. Glove frozen to link; accidental. February 29, Theo. Warner, trespasser, Holloway. Foot caught between drawbars of cars on which he was stealing a ride; misconduct. April 29, Wm. Hunter, citizen, North Morenci. Killed by being struck on crossing; was blind. September 7, John Clark, boy 15 years, trespasser, Detroit. Jumped from moving train and died from injuries. November 25, C. D. Sonday, fireman, Milan. Fell from engine while lighting headlight; accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.		Injured.			
Causes or accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars Falling from trains					1 1	
Highway crossings.  Treepassers on trains			1			i
Total			2		2	1

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	2
Number of casualties purely accidental. Number resulting from lack of caution, carelessness, or misconduct.	2
Prespassers and trampe killed or injured	2

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Firemen Yardmen		1	1 1
Total		2	2

STATE OF MISSOURI, } ss.

Joseph Ramsey, vice president, of the Wabash Railroad Company, being duly aworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

JOS. RAMSEY, JR.,

Vice President and General Manager.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

[L. s.] Commission expires Nov. 1, 1897, B. C. Winston,

Notary Public, City of St. Louis, Mo.

# DEPOT AND STATION COMPANIES

# ANNUAL REPORT

#### OF THE

# DETROIT UNION RAILROAD DEPOT & STATION COMPANY,

For the year ending December \$1, 1896.

[Filed March 27, 1897.]

# NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President, JAMES JOY, Detroit, Mich. Vice President, HENRY B. JOY, Detroit, Mich. Secretary, JAMES G. MILLER, Detroit, Mich. Treasurer, HENRY B. JOY, Detroit, Mich.

#### ORGANIZATION, ETC.

When chartered or articles of association filed: June 11, 1881.

Number of stockholders at date of last election: 17.

Number of stockholders in Michigan at same date: 15.

Date of annual meeting of stockholders: On the first Wednesday in February.

General offices of company located at Detroit, Mich.

#### STOCKHOLDERS, DECEMBER 31, 1896.

Names.	Residence.	Amount held.
James F. Joy James Joy, Henry B. Joy, and R. P. Joy, trustees. James Joy. Henry B. Joy Henry B. Joy, guardian.	Detroit, Mich.	\$40,000 00 205,000 00 127,500 00 182,500 00 56,360 00
Richard P. Joy Helen N. Joy Louise Todd Joy Allan Shelden James McMillan	Louisville, Ky.	132,500 00 63,200 00 56,200 00 506,300 00 281,200 00
T. D. Buhl Frank H. Buhl Caroline Buhl Helen H. Newberry, executrix	Sharon, Pa	260,000 00 135,000 00 10,000 00 56,300 00
Helen H. Newberry. Truman H. Newberry J. Stonghton Newberry G. W. Balch	11 11	56,200 00 56,300 00 56,300 00 19,200 00
Total		\$2,250,000 00

#### CAPITAL STOCK.

By whom subscribed.	Residence.	No. of shares.	Amount.
James F. Joy C. H. Buhl Allen Shelden James McMillan John S. Newberry R. A. Alger M. S. Smith G. W. Balch		1,666% 1,666% 1,666% 1,066% 1,250 1,250 8383% 833% 833%	\$166,667 00 166,667 00 125,000 00 125,000 00 83,338 00 83,338 00
Total		10,000	\$1,000 000 00

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

There is no funded debt. No mortgages or encumbrance of any kind whatever upon this company's property. The bonds issued some years ago have all been cancelled and stock issued therefor. There is now only a stock issue outstanding for say \$2,250,000.

# COST.

Of real estate, including right of way. Of depot buildings and fixtures. Of elevators and belongings Other items. Of all other property.  Total cost.	62,196 27 308,595 87 114,558 36 611,187 81
1041 0040	======
CASE PAID TO CORPORATION.	
On account of original capital stock	1.250,000 00
Total cash paid	\$2,364,558 36
TRACE.	
Length of single main track—miles	8.84 8.50
Total track	6.84
analysis of Earnings and Expenses.	
Barnings.	
From rentals From all other sources	\$92,287 47 19,811 72
Total earnings.	\$112,099 19
Expensia.	
Operating.	
Salaries of officers and clerks	\$2,500 00 19,326 36
Taxes	4.024 41
Miscellaneous	38 52
Total	\$25,884 29

#### RECAPITULATION.

Expenses for operating and taxes	\$25,884 29
•	
Total expenses for the year	\$25,884 29

#### ADDITIONAL INTERROGATORIES.

#### DESCRIPTION AND CHARACTER OF BUILDINGS AND OTHER PROPERTY.

Passenger houses, brick; not used as such any longer.
Freight houses, brick; number, one.
Grain elevator, brick; number, one, capacity, about 1,250,000 bushels.
Sheds, freight, brick; number, one.
Water front and docks, feet: About 2,500 feet, with two large ferry slips to accommodate freight and passenger transfer across the Detroit river.

#### STREET CROSSINGS, ETC.

At grade, number, 19.
Frogs and guard rails, are they blocked as required by law? Yes.

#### CONTRACTS AND LEASES.

What railroad companies have rented terminal privileges from you during the year, and on what terms? No railroad companies have rented terminal privileges during 1996. On February 27, 1996, Hon. James F. Joy sent per U.S. mail a book containing all the contracts and leases of this company, to be placed on file in your office, for your information.

#### VERIFICATION.

STATE OF MICHIGAN, Sec.

James Joy, president, and James G. Miller, secretary, of the Detroit Union Railroad, Depot and Station Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the said company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

JAMES G. MILLER.

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

F. W. DEMNIS. Notary Public.

#### ANNUAL REPORT

OF THE

# FORT STREET UNION DEPOT COMPANY,

For the year ending December 31, 1896.

[Filed March 24, 1897.]

#### NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President, WM. W. CRAPO, New Bedford, Mass. Vice President, CHAS, M. HEALD, Grand Rapids, Mich. Secretary and Treasurer, HENRY B. JOY, Detroit, Mich.

#### ORGANIZATION, ETC.

When chartered or articles of association filed: August 24, 1889.

Number of stockholders at date of last election: 15.

Number of stockholders in Michigan at same date; 7.

Date of annual meeting of stockholders: First Wednesday in February.

General offices of the company are located at Boom 1, Newberry Building, Detroit, Mich.

#### STOCKHOLDERS, DECEMBER 31, 1896.

Names.	Residence.	Amount held
W. C. Van Horne.	Montreal	\$125,000 0
r. G. Shaughnessy	Montreal	92,500 0
Thos. Tait	Montreal	32,500 0
Wm. W. Crapo	New Regiota	50,000 0
Wm. W. Crapo, trustee	New Bedford	199,000 0
Stanford T. Crapo	Saginaw	1,000 0
under will of H. Thayer.	Poston	249,000 0
Chas. M. Heald	Boston Grand Rapids	1,000 0
James Joy	Detroit.	14,000 0
, ames out	Dentoion	12,000 0
Henry B. Joy	Detroit.	13,000 0
J. Ramsey, Jr.	St. Louis	1,000 0
Richard P. Joy	Detroit	14,000 0
J. Joy, H. B. Joy and R. P. Joy executors under will of		,
J. F. Joy	Detroit	42,800 0
Allan Shelden	Detroit	56,900 0
Frank H. Ruhl	Sharon, Penn.	15,200 0
Cheo. D. Buhl	Detroit	<b>80,400</b> 0
Helen H. Newberry, executrix	Detroit	31,600 0
James McMillan	Detroit	31,600 0
Total		\$1,000,000 0

# ORIGINAL CAPITAL STOCK SUBSCRIBERS.

By whom subscribed.	Residence.	No. of shares.	Amount.
W. C. Van Horne	Toronto	1,000 1,000 250 750 250	\$100,000 0 100,000 0 25,000 0 75,000 0 25,000 0
Lewis Pierce	Boston, Mass	250	25,000 0 25,000 0 62,500 0 62,500 0 1,000 0
Total		5,010	\$501,000 0

Capital stock since increased to \$1,000,000 all paid in.

#### ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Character and date of issue.	Rate of interest.	When due.	Payable when.	Amount outstandin	
First mortgage bonds	416%	1941	January and July	\$1,000,000	00
Ţ	IN <b>F</b> UND <b>E</b> D	DEST.			
For real estate and construction, i. e., to con	mplete the	work—Bills pay	aple	. \$310,694	40
3	RECAPITUI	LATION.			
Total funded debt Total unfunded debt	·			\$1,000,000 \$10,694	
Total indebtedness				\$1,310,694	40
Total stock and debt				\$2,310,694	40
	COST	r <b>.</b>			
Of real estate, including right of way Of depot buildings and fixtures, and elevate Of all other property	d railroa	d structure	· 	\$1,259,212 699,927 849,509	74 48 61
Total cost				\$2,808,649	88
CASH F	PAID TO O	ORPORATION.		•	
On account of original capital stock		•		\$501,000 499,000	00 00
Bonds sold				1,000,000 310,694	
Total cash paid				\$2,310,694	40
	TRAC	ĸ.		•	
Length of double track, main line—miles Length of sidings and other tracks—miles				1.	.41 .27
Total track	·····				.68

#### ANALYSIS OF EARNINGS AND EXPENSES.

#### BARNINGS.

Total earnings	126,149 22
EXPENSES.	
Operating.	
Salaries of officers and clerks	\$1,500 00 6,693 11 150 78
Total.	<b>\$8,843 84</b>
RECAPITULATION.	
Expenses for operating and taxes	\$8,843 84
Total expenses for the year	8,848 84

#### ADDITIONAL INTERBOGATORIES.

#### DESCRIPTION AND CHARACTER OF BUILDINGS AND OTHER PROPERTY.

Passenger houses, brick and stone, number, 1. Freight houses, brick and stone, number, 1.

#### STREET CROSSINGS, ETC.

Over or under grade?

Approach is by elevated railroad along and over a street for about two-thirds of a mile. Over bridges, number, 1.

Frogs and guard rails, are they blocked as required by law? Yes.

#### CONTRACTS AND LEASES.

What railroad companies have rented terminal privileges from you during the year and on what terms? This company's property is leased to and occupied by the following four railroads, viz.: Wabash, F. & P. M., D, L. & N., and Canadian Pacific, upon the terms that each road shall pay its share of an annual rental sufficient to pay 5% per annum on the stock and bonds; also, cost of operation expense and interest on floating debt.

#### VERIFICATION.

STATE OF MICHIGAN, } as.

Wm. W. Crapo, president, and Henry B. Joy, secretary, of The Fort Street Union Depot Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the said company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

WM. W. CRAPO, President. HENRY B. JOY, Secretary.

Subscribed and sworn to before me this 3d day of February, A. D. 1897.

[L. 8.]

F. W. DENNIS,
Notary Public.

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# ORE AND FOREST ROADS

# ANNUAL REPORT

#### OF THE

# . BEAR LAKE & EASTERN RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed January 6, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, G. W. HOPKINS, Bear Lake, Mich. Secretary, D. H. HOPKINS, Bear Lake, Mich. Auditor, G. W. HOPKINS, Bear Lake, Mich. Treasurer, E. S. HOPKINS, Bear Lake, Mich. General Manager, G. W. HOPKINS, Bear Lake, Mich. General Superintendent, C. G. WAREHAM, Bear Lake, Mich.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 24, 1882. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: All of stock. Date of annual meeting of stockholders: January 31. Fiscal year of company ends: December 31. General offices of the company are located at Bear Lake, Mich.

#### GENERAL EXHIBIT.

Debit.   Total earnings from operation	Credit. \$7,395 28
Net income.	\$1,821 70
Balance for the year	\$1,821 70
Balance (profit and loss) last year.	10,314 51
Balance forward to next year	\$12,136 21
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association Par value of shares	\$250,000 00
Total amount paid in, as per books of the company	104,664 00
Paid in per mile of road owned by company, 18 miles	5,814 66

# ANALYSIS OF DEBT ACCOUNTS.

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous	To be paid from net earnings	\$8,691 7
	RECAPITULATION.	
Total unfunded debt		\$8,691 7
Total debt liabilities		\$ 8,691 7
Amount of debt liabilities per Fotal amount of stock and deb Stock and debt per mile of roa	mile of road, 18 milesd, 18 milesd, 18 miles	482 8 118,855 71 6,297 53
	GENERAL BALANCE SHEET.—Dr.	
Construction account		\$95,276 2 80,215 7
Total		\$125,491 9
	GENERAL BALANCE SHEET.—Cz.	
Capital stock	nnte	\$104,664 0 8,691 7 12,186 2
	COST OF ROAD AND EQUIPMENT.	\$125,491 9
Total		\$125,491 \$
Total	COST OF ROAD AND EQUIPMENT.  uction and equipment of road and branches built by compan	\$125,491 9 y. \$125,491 9 6,971 7
Total  Total cost for construction Average cost per mile of road ( Proportion of cost for Michigan  ANALYSIS OF	COST OF ROAD AND EQUIPMENT.  uction and equipment of road and branches built by compan m and equipment not including sidings), 18 miles.	\$125,491 9 y. \$125,491 9 6,971 7
Total  Total cost for construction for the following cost per mile of road (Proportion of cost for Michigan ANALYSIS OF Main line and branches:	COST OF ROAD AND EQUIPMENT.  uction and equipment of road and branches built by compan m and equipment	\$125,491 9 y. \$125,491 9 6,971 7
Total	COST OF ROAD AND EQUIPMENT.  uction and equipment of road and branches built by compan m and equipment not including sidings), 18 miles.  EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER EARNINGS.	\$125,491 9 y. \$125,491 9 6,971 7
Total	COST OF ROAD AND EQUIPMENT.  uction and equipment of road and branches built by compan m and equipment	\$125,491 \$ y. \$125,491 \$ 6,971 7 6,971 7
Total cost for construction for the cost for construction of cost for Michigan ANALYSIS OF Main line and branches:  Total passenger fares  Total passenger departm	COST OF ROAD AND EQUIPMENT.  section and equipment of road and branches built by compan m and equipment not including sidings), 18 miles  EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70 ent earnings  FREIGHT BARNINGS.  \$7,370 58	\$125,491 \$ y. \$125,491 \$ 6,971 7 6,971 7
Total cost for construction to the second cost for construction of cost for Michigan ANALYSIS OF Main line and branches:  Total passenger fares  Total passenger departm  Main line and branches:  Total traffic	COST OF ROAD AND EQUIPMENT.  section and equipment of road and branches built by company m and equipment not including sidings), 18 miles  EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70 ent earnings  FREIGHT BARNINGS.  \$7,370 58	\$125,491 \$  y.  \$125,491 9 6,971 7 6,971 7
Total cost for construction to the second cost for construction of cost for Michigan ANALYSIS OF Main line and branches:  Total passenger fares  Total passenger departm  Main line and branches:  Total traffic	COST OF ROAD AND EQUIPMENT.  section and equipment of road and branches built by compan m and equipment not including sidings), 18 miles  EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70 ent earnings  FREIGHT BARNINGS.  \$7,370 58	\$125,491 \$ y. \$125,491 \$ 6,971 7 6,971 7
Total cost for construction are recommended for construction are recommended for construction are recommended for construction of cost for Michigan ANALYSIS OF Main line and branches:  Total passenger fares  Total passenger departm  Main line and branches:  Total traffic	COST OF ROAD AND EQUIPMENT.  action and equipment of road and branches built by company and equipment of road and branches built by company and equipment of road and branches built by company and equipment of road and branches built by company and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment of road and equipment.  COST OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.  EACH OF ROAD AND EQUIPMENT.	\$125,491 \$  y.  \$125,491 9 6,971 7 6,971 7
Total cost for construction are as a cost per mile of road (Proportion of cost for Michigan ANALYSIS OF Main line and branches: Total passenger departm  Main line and branches: Total passenger departm  Total traffic	COST OF ROAD AND EQUIPMENT.  uction and equipment of road and branches built by compan m and equipment not including sidings), 18 miles.  EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER EARNINGS.  \$24 70 ent earnings  FREIGHT EARNINGS.  \$7,370 58 earnings entire line ile of road.  \$410 85	\$125,491 \$  \$125,491 \$  \$125,491 \$  6,971 7   \$24 7  7,870 5  \$7,895 2

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

MAINTENANUE OF WAI AND STRUCTURES.	
Repairs of roadway	\$1,682 87 127 20 10 42
Total	\$1,820 49
MAINTENANCE OF EQUIPMENT.	
•	
Repairs and renewals of locomotives.  Repairs and renewals of freight cars.	\$285 81 378 88
Total.	\$613 69
CONDUCTING TRANSPORTATION.	
Superintendence	\$1,000 00
Superintendence Fuel for locomotives Oil, tallow and waste for locomotives Train service	647 70 80 32 790 28
Total	\$2,518 80
10/01	<del></del>
GENERAL EXPENSES.	
	****
Salaries of general officers. General office expenses and supplies Other expenses	\$300 00 175 00 146 10
Total	\$621 10 
RECAPITULATION OF EXPENSES.	
Maintanance of way and structures	\$1,820 49
Maintenance of equipment	RIX RD
Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes	2,518 80 621 10
Total operating expenses and taxes	\$5,573 58
Operating expenses and taxes per mile of road	309 64
Total proportion of expenses for Michigan.  Percentage of expenses to earnings	5,573 58
recontage of expenses we estimate.	<del></del>
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Pierport, Mich., to Maple Grove, Mich., Nov. I, 1887.	
MAIN LINE.	
Miles.	Miles.
In Michigan, from Pierport to Maple Grove	40
Total length completed	
Total length of road belonging to this company	18
aggregate length of tracks in michigan belonging to this company, computed as single	18
Gauge of track, 3 feet.	
If north of parallel 44 of latitude: Yes.	
105.  Number of bridges and trestles in Michigan.	Aggregate
Number.	length feet.
Wooden bridges	96 766
Total 6	862
AVV8	002

#### Crossings.—Railroad and highway.

	Crossings.—Railroad a	nd highway.		
Number of crossings of highway Number of crossings of highway	s at grade in this State.	l: under, 1		13 1
	Stations.	ı		
Number of stations on whole lin Same in Michigan	08			5 5
	w			
	Employée			
Number of persons regularly emp Same in Michigan	oloyed on all roads opera	ted by company, in	cluding officials	11 11
Classify your employée as per fo	llowing list:			Number.
Engineers Firemen				2 2
Laborers				
Shopmen. Others				2
	REPAIRS AND RE	NEWALS.		
	Fencing in Mic	higan.		
How many miles of fencing have	you1			17
Give the number of miles requir and the counties in which nee	ed to complete fence bot			
Manistee county				19
Total miles required				
	Road bed and	track.		
Number of track sections in Mic	higan			.1
Average lengths of sections, mile Average number of men in each	section gang			18 4
New bridges built during the ye	ar—number, 1.			
Location.	Kind.	Material.	Month built.	feet in length.
Manistee County	Wooden trestle		July	66
-				<del></del>
			•	
	ROLLING ST	OCK.	P	resent esti-
Number of locomotives of more Number of locomotives of 20 to 3	than 30 tons weight, exc	lusive of tender	Number. m	
Total.			8	\$9,500 00
Number of passenger cars—8-wh Number of platform cars	eel, including official ca	rs	1 58	\$1,000 00 16,215 72 3,500 00
Other cars		*****************	14	3,500 00
Total			68	\$30,215 72

#### ADDITIONAL QUESTIONS.

'Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Six. Poles to B. L. & E. R. R.; wire to Western Union Telegraph Co. STATE OF MICHIGAN, } 88.

G. W. Hopkins, president, and E. S. Hopkins, treasurer, of the Bear Lake and Rastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

GEO. W. HOPKINS, E. S. HOPKINS.

Subscribed and sworn to before me this 5th day of January, A. D. 1897.

[L. 8.

C. C. Burgess, Notary Public.

#### ANNUAL REPORT

OF THE

# CRAWFORD & MANISTEE RIVER RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 7, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. E. CARTIEB, Ludington, Mich.
Vice President, JAMES DEMPSEY, Manistee, Mich.
Secretary and Auditor, WM. WENTE, Manistee, Mich.
Treasurer, L. T. DEMPSEY, Manistee, Mich.
General Manager and General Superintendent,
N. DOWEN, Fletcher, Mich.
General Freight Agent, N. DOWEN, Fletcher, Mich.

#### DIRECTORS.

ALLEN MOKER, Manistee, Mich.
Term expires December 1, 1897.

A. E. Cartier, Ludington, Mich.
Term expires December 1, 1898.

JAMES DEMPSEY, Manistee, Mich.
Term expires December 1, 1899.

L. T. DEMPSEY, Manistee, Mich.
Term expires December 1, 1901.

WM. WENTE, Manistee, Mich.
Term expires December 1, 1902.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 28, 1885. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$50,000. Date of annual meeting of stockholders: First Tuesday in December. Fiscal year of company ends: December 31. General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT.	Credit.
Total earnings from operation.  Total expenses, including taxes	\$7,687 52
Net income	\$77 25
Balance applicable to dividends	77 25 266 01
Balance for the year	
Balance (profit and loss) last year	188 76

# ANALYSIS OF CAPITAL STOCK.

ANALISM OF CALIFED BLOCK.	
Amount authorized by charter or articles of association \$100.00 Amount paid in on common \$50,000.00	\$50,000 00
Total amount paid in as per books of the company	50,000 00
Paid in per mile of road owned by company	5,000 00
• • • • • • • • • • • • • • • • • • • •	<del></del>
ANALYSIS OF DEBT ACCOUNTS.	
RECAPITULATION.	
Total debt liabilities.	<b>\$5</b> 0,000 00
Amount of debt liabilities per mile of road, 10 miles	5,000 00 50,000 00
Total amount of stock and debt.  Stock and debt per mile of road, 10 miles.	50,000 00 5,000 00
GENERAL BALANCE SHRET.—Dr.	
Construction account         \$45,566 58           Equipment account         11,618 18	
Total	\$57,184 76
GENERAL BALANCE SHEET.—Cr.	
Capital stock         \$50,000 00           Profit and loss or income accounts         7,184 76	
Total	\$57,184 76
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.	
Total expended for construction and equipment  Average cost per mile of road (not including sidings), 10 miles  Proportion of cost for Michigan	\$37,184 76 5,718 47 57,184 76
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICHIGAN.	
Main line and branches:	
Through traffic \$7,687 52	** *** ***
Total traffic	\$7,687 52
Total freight department earnings	\$7,687 52
Per train mile         \$0.72           Per mile of road         768.75	
Total transportation earnings, entire line.  Transportation earnings per mile of road	\$7,687 52
Total earnings from operation of road.	\$7,687 52
Total earnings per mile of road 768 75 Total earnings per train mile 72 Proportion of taxable earnings for Michigan 7,687 52	
Total income from all sources	\$7,687 52

# Analysis of expenses.

#### MAINTENANCE OF WAY AND STRUCTURES.

MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$8,214 14 360 00
Total	\$3,574 14
MAINTENANCE OF EQUIPMENT.	
Repairs and renewals of locomotives	\$60 00 1,182 85
Total	\$1,242 85
CONDUCTING TRANSPORTATION.	****
Engine and roundhouse men Fuel for locomotives Water supply for locomotives Other supplies for locomotives Train supplies and expenses	\$924 20 657 93
Water supply for locomotives	
Other supplies for locomotives	211 18 514 15
DURATION BETVICE	258 75
Stationery Other expenses }	114 54
Total	\$2,675 75
GENERAL EXPENSES.	
Taxes	\$117 58
Total	\$117 58
DRALDVERT ARION OR STRINGES	
RECAPITULATION OF EXPENSES.  Per cent	
expense	<b>.</b>
Maintenance of way and structures 46.96 Maintenance of equipment 16.33	
Conducting transportation 35.16	2,675 75
General expenses, including taxes 1.55	117 58
Total operating expenses and taxes	\$7,610 27 ————
Operating expenses and taxes per mile of road \$761 03	
Operating expenses and taxes per train mile run, for trains, earning revenue	
Proportion of operating expenses and taxes for Michigan—Main line	\$7.610 27
Percentage of expenses to earnings	7 72
Net earnings per mile of road	0.72
Man destrings has a seria mino	
DESCRIPTION OF ROAD.	
MAIN LINE.	
Miles.	Miles.
In Michigan, from Manistee River to forest terminus	10
Total length completed	10
Total length of road belonging to this company in Michigan	3
Aggregate length of tracks in Michigan belonging to this company, computed as single	
Gauge of track, 3 feet.	
-	
Crossings.—Railroad and highway.	
Number of crossings of highways at grade in this State.	8

#### Stations.

Number of stations on whole lines	2
$Employ\'es.$	
Number of persons regularly employed on all roads operated by company, including officials Classify your employée as per following list:  Brakemen	Number. 1
Conductors Engineers Firemen Laborers Shopmen	1 1 13
REPAIRS AND RENEWALS.	
Road bed and track.	
Number of track sections in Michigan.  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.	6,000 6,000 600
ROLLING STOCK.	
Number. Number of locomotives of 10 to 20 tons weight, exclusive of tender	Present esti- mated value. \$4,000 00
Total 1	\$4,000 00
Number of platform cars 84 Other cars, as follows: Hand cars 2	\$5,100 00 50 00
Total	
MILEAGE, TRAFFIC, ETC.	
Train mileage.	All in Michigan.
Miles run by freight trains during the year	10,600
Total mileage of trains earning revenue	10,600
Freight traffic.—Road all in State of Michigan.	
Number of tons of through freight carried, earning revenue 31,147	Rate.
Total tons of freight carried, earning revenue	
Total mileage of through freight	
Total freight mileage or tons carried one mile	
Average ton haul for through freight	\$0 24.6 02.4 02.4 02.1

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.		Whole tons.	Per cent.
Products of forest:	31,147		81,147	100.

STATE OF MICHIGAN, } 86.

James Dempesy, vice president, and Wm. Wente, secretary of the Crawford & Manistee River Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JAMES DEMPSEY, Vice President. WM. WENTE, Secretary.

Subscribed and sworn to before me this 5th day of April, A. D., 1897.

JAMES W. DEMPSEY, Notary Public Manistee Co.

#### ANNUAL REPORT

#### OF THE

# DEAD RIVER RAILROAD COMPANY,

For the year ending December \$1, 1996.

[Filed April 10, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WILLIAM KNIGHT, Cleveland, Ohio. Secretary, W. A. BROWN, Marquette, Mich. Treasurer, B. K. HAWLEY, Cleveland, Ohio,

#### DIRECTORS.

B. K. HAWLEY, Cleveland, Ohio.
WILLIAM KNIGHT, Cleveland, Ohio.
JAMES BEAHANEY, Marquette, Mich.
D. H. BALL, Marquette, Mich.
GEO. P. CUMMINOS, Detroit, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 11, 1889.
Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 5.
Amount of full paid stock held in Michigan at same date: Not any.
Date of annual meeting of stockholders: No arrangement for annual meeting.
Fiscal year of company ends: December 31.
General offices of the company are located at Marquette, Mich.

#### REMARKS.

This road is operated by the Duluth, South Shore & Atlantic Railway Company under contract with R. K. Hawley and T. H. McGraw, wherein said Duluth, South Shore & Atlantic Railway Co., agree to haul certain logs belonging to said Hawley & McGraw, for a stated price per thousand feet.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			\$25,000 00
Par value of shares. \$1 Amount paid in on preferred, 5% of 200. Cost of construction paid in full	100 00	\$1,000 00 51,010 98	
Total amount paid in, as per books of the company.			\$52,010 96
Paid in per mile of road owned by company			
2 2 2 1			

#### ANALYSIS OF DEBT ACCOUNTS.

#### RECAPITULATION.

RECAPITULATION.		
Total amount of stock and debt		\$25,000 00 8,889 26
COST OF BOAD AND EQUIPMENT.		
• • • • • • • • • • • • • • • • • • •		
Total cost for construction and equipment of road, and branches built by	company	•
Total expended for construction	•••••	\$51,010 96 17,117 77
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: August 11, 1890.		
MAIN LINE.		
	Miles.	Miles.
Length completed in Michigan		
Total length completed		2.98
Total length of road belonging to this company		2.98
Total length of road belonging to this company in Michigan	2.98 .17 .17	
Aggregate length of tracks belonging to this company, computed as single track		8.15
Same in Michigan	8.15	

Gauge of track, 4 feet 8% inches.

STATE OF MICHIGAN, COUNTY OF MARQUETTE, }88.

William Knight, president, and W. A. Brown, secretary, of the Dead River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers, and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WILLIAM KNIGHT, President. W. A. BROWN, Secretary.

Subscribed and sworn to before me this 8th day of April, A. D. 1897.

[L. S.]

F. J. SCHULTHEIS,

Notary Public, Marquette Co., Mich.

#### ANNUAL REPORT

#### OF THE

# HECLA & TORCH LAKE RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed February 28, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ALEX AGASSIZ, Boston.
Secretary, J. N. COX, Calumet.
Treasurer, J. N. COX, Calumet.
General Manager, S. B. WHITING, Calumet.
General Superintendent, W. A. CHILDS, Calumet.
Assistant General Superintendent, CHRIST BURCH, Calumet.

#### DIRECTORS.

ALEX. AGASSIZ, Cambridge, Mass. Q. A. SHAW, West Boxbury, Mass. S. B. WHITING, Calumet, Mich. JOHN DUNCAN, Calumet, Mich. W. A. CHILDS, Calumet, Mich. Terms expire June, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 1867.
Number of stockholders at date of last election: 5.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$200.00.
Date of annual meeting of stockholders: Third Wednesday in June.
Fiscal year of company ends April 30.
General offices of the company are located at Calumet, Mich.

#### REMARKS.

The road is operated and wholly owned by the Calumet and Hecla Mining Co., which pays any deficit that may occur for the privilege of having its rock transported free.

GENERAL EXHIBIT.	Debit.	Credit.
Total expenses, including taxes	\$104,052 72	\$104,052 72
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association  Par value of shares  Number of shares issued 1.00	<b>\$100 00</b>	\$150,000 00
Number of shares issued. 1,00 Total amount paid in, as per books of the company. Paid in per mile of road owned by company.	v	100,000 00 13,333 83

# ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction		\$690,282 84
	RECAPITULATION.	
Total unfunded debt		\$690,282 84
Total debt liabilities		\$690,282 84
Total amount of stock and debt	le of road, 7½ miles	92,037 70 790,282 84 105,363 77
G	ENERAL BALANCE SHEET.—Dr.	
Construction account	\$790,282.84	
Total		\$790,282 84
G	BENERAL BALANCE SHEET.—Cr.	
Capital stock	\$100,000 00 690,282 84	
		e700 000 84
		\$790,282 84
	OST OF ROAD AND EQUIPMENT.	\$190,202 84
C		
Co Total cost for construction	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by compan	
Contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contraction of contra	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by compan	y.
Total cost for construction a Proportion of cost for Michigan:  Average cost per mile of road (no	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companind equipment	y. \$790,282 84
Total cost for construction a Proportion of cost for Michigan: Average cost per mile of road (no	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companed equipment.  All.  t including sidings)	y. \$790,282 84
Total cost for construction a Proportion of cost for Michigan: Average cost per mile of road (no ANALYSIS OF E	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)	y. \$790,282 84
Total cost for constructic Total expended for construction a Proportion of cost for Michigan: Average cost per mile of road (not ANALYSIS OF H  Main line and branches: Local traffic	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)	\$790,282 84 \$105,363 77
Total cost for constructic Total expended for construction a Proportion of cost for Michigan: Average cost per mile of road (not ANALYSIS OF H Main line and branches: Local traffic	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  FREIGHT EARNINGS.	\$790,282 84 \$105,363 77 \$101,422 98 \$104,052 72 13,874 80
Total cost for construction a Proportion of cost for Michigan: Average cost per mile of road (no ANALYSIS OF E  Main line and branches: Local traffic Total transportation earnings per mile Transportation earnings per train	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  FREIGHT EARNINGS.	\$790,282 84 \$105,363 77 \$101,422 98 \$104,052 72 13,874 80
Total cost for construction a Proportion of cost for Michigan:  Average cost per mile of road (no  ANALYSIS OF E  Main line and branches:  Local traffic  Total transportation earnings enti Transportation earnings per mile Transportation earnings per train	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  FREIGHT HARNINGS.  ire lines of road amile  ANALYSIS OF EXPENSES.	\$105,363 77 \$105,363 77 \$101,422 98 \$104,052 72 13,874 90 1 93
Total cost for construction a Proportion of cost for Michigan: Average cost per mile of road (no ANALYSIS OF E  Main line and branches: Local traffic Total transportation earnings enti Transportation earnings per mile Transportation earnings per train  MA Repairs of roadway Renewals of rails.	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)	\$105,363 77 \$105,363 77 \$101,422 98 \$104,052 72 13,874 30 1 98 \$12,888 78 1,200 00
Total cost for construction as Proportion of cost for Michigan:  Average cost per mile of road (not ANALYSIS OF E  Main line and branches: Local traffic  Total transportation earnings per mile Transportation earnings per train  MA  Repairs of roadway Renewals of rails Renewals of ties Other expenses—signal tower	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by companing equipment.  All.  t including sidings)  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  FREIGHT EARNINGS.  ire lines of road mile  ANALYSIS OF EXPENSES.	\$790,282 84 \$105,363 77 \$101,422 98 \$104,052 72 13,874 30 1 93

MAINTENANCE OF EQUIPMENT.

Not kept separate.

#### CONDUCTING TRANSPORTATION.

Train service. Train supplies and expenses	\$11,431 2 49,708 3 25,339 5
Total	\$86,479 2
GENERAL EXPENSES.	
Taxes	\$2,629 7
Total	\$2,629 7
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures.	\$17.578.59
Conducting transportation General expenses, including taxes	\$17,573 53 83,849 46 2,629 74
Total operating expenses and taxes	\$104,052 72
DESCRIPTION OF ROAD.	
MAIN LINE.	Miles
In Michigan, from Calumet to Lake Linden	6
BEANCHES.  From Hecla to South Hecla	
From Hecla to Calumet. 3.2	
Total length of branches owned by company	1.2
Total length of branches owned by company in Michigan 1.2 Total length of road belonging to this company	7.2
Gauge of track, 4 feet 1 inch.	
Number of bridges and trestles in Michigan.	Aggregate length feet.
Wooden trestles.	1,500
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Mineral Range R. R. at Calumet.	
What railroads cross your road either over or under your grade in this State, and where? Under:	
Hancock & Calumet R. R. at Calumet. At what crossings are interlocking and derailing switches in operation? Mineral Range.	
What pattern or patterns have you adopted? U. S. & S. Co.	
Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gates or flagman Number of crossings at which there are electric or automatic signals	3 2
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Yes.	
How are they treated?	
Iron choke pieces.	

# Employés.

Number of persons regularly employed on all roads operated by company, inclu	iding officials	. 88
Classify your employée as per following list:	•	Number.
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others		18 6 6 80 8
REPAIRS AND RENEWALS.		
Fencing in Michigan.		
How many miles of fencing have you		15
Road bed and track.		
Number of track sections in Michigan		3
Average number of men in each section gang	=	6
ROLLING STOCK.		
	Number, ma	esent esti-
Number of locomotives of more than 30 tons weight, exclusive of tender Number of locomotives of 20 to 30 tons weight, exclusive of tender		\$89,000 00 7,600 00
Total		\$96,600 00
Number of passenger cars—8-wheel, including official cars	- 45 - 880 - 8	\$475 00 950 00 6,900 00 9,975 00 85,500 00 665 00 8,450 00
Total	467	\$112,915 00
Are your freight cars being equipped with automatic couplers as required by a of 1885, as amended by act No. 28, session laws of 1887? No, cars always had safety couplers. What pattern or patterns have you adopted for use? Childs; cars couple after deadwoods meet; no danger to men making or unma	·	sion laws
MILEAGE, TRAFFIC, ETC.		
Train mileage.	T 1	Mishi
Miles run by freight trains during the year		54,000
Freight traffic.—Road all in State of Michigan.		
Tons.	Miles.	Rate.
Total mileage of through freight	54,000 10,947;165	0.07
No, cars always had safety couplers.  What pattern or patterns have you adopted for use? Childs; cars couple after deadwoods meet; no danger to men making or unma  MILEAGE, TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year  Freight traffic.—Road all in State of Michigan.	In 1  Miles. 54,000 10,947;165	Rate

#### FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight	Freight re- ceived from	Total freight tonnage.	
Commodity.	originating on this road Whole tons.	connecting roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture : Grain Hay	408 130			
Products of mines: Anthracite coal. Bituminous coal. Coke. Ores, rock. Stone, sand and other like articles.	115,915 95			
Products of forest: LumberShingles	24,876 44			
Manufactures: Petroleum and other oils Castings and machinery Bar and sheet metals Cement, brick and lime	1,251 130			
Miscellaneous: Other commodities not mentioned above	561			
Total tonnage	1,459,622			

STATE OF MICHIGAN, }88.

Will A. Childs, superintendent, and James N. Cox, secretary, of the Hecla & Torch Lake Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF B. R.]

Signed,

WILL A. CHILDS,

Subscribed and sworn to before me this 20th day of February, A. D. 1897.
[L. s.]

L. W. KILLMAR, Notary Public, in and for Houghton Co.

JAMES N. COX.

#### ANNUAL REPORT

#### OF THE

# LAKE SUPERIOR & ISHPEMING RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed May 22, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WM. G. MATHER, Cleveland, Ohio. Vice President, JAS. LAUGHLIN, JE., Pittsburg, Pa. Secretary, J. H. HOYT, Cleveland, Ohio. Auditor, J. C. URICH, Marquette, Mich. Treasurer, W. G. POLLOCK, Cleveland, Ohio. General Manager, JOHN M. EGAN, Marquette, Mich. Attorney, GEO. HAYDEN, Ishpeming, Mich.

#### DIRECTORS.

WM. G. MATHER, Cleveland, Ohio.
JAS. LAUGHLIN, JR., Pittsburg, Pa.
J. H. WADE, New York, N. Y.
B. F. JONES, JE, Pittsburg, Pa.
W. G. POLLOCK, Cleveland, Ohio.
J. H. HOYT, Cleveland, Ohio.
GEO. HAYDEN, Ishpeming, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 24, 1893; (dated February 17, 1893; amendment dated September 12, 1895.)

Number of stockholders at date of last election: 10.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date: 1,251 shares—\$125,100.00.

Date of annual meeting of stockholders: Second Tuesday in February.

Fiscal year of company ends: December 31.

General offices of the company are located at business office at Marquette. Principal office, Ishpeming.

# GENERAL EXHIBIT.

	Debit.	Credit.
Total earnings from operation Total expenses, including taxes	\$81,889 30	\$80,900 25
Net income		\$49,010 95
Interest on funded debt	87,278 70 5,329 59	0.407.00
Balance for the year		86,407 66 \$6,407 66
Datation forward to near year		=====

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association as amended.	\$1,000,000 00
Number of shares issued	1,000,000 00
Total amount paid in, as per books of the company	\$1,000,000 00
Paid in per mile of road owned by company, 20% miles	48,780 49

# ANALYSIS OF DERT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Gold bonds, January 1, 1896	6%	January 1, 1928.	New York City	\$1,200,000 00

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For equipment. For real estate For miscellaneous.	To be paid in cash.	\$184,179 75 8,755 00 16,519 71
Total unfunded debt		\$209,454 46

#### RECAPITULATION.

Total funded debt	\$1,200,000 00 209,454 46
Total debt liabilities	\$1,409,454 46
Amount of debt liabilities per mile of road, 20½ miles.  Total amount of stock and debt.  Stock and debt per mile of road, 20½ miles.	68,753 88 2,409,454 46 117,534 86

### GENERAL BALANCE SHEET.-Dr.

Construction account	\$925,479 04 288,557 56	
Other investments: . Rights of way, terminal lands, contracts and labor	1,000,000 00	\$2,214,036 60
Cash items:		10,445 65
•		\$2,224,482 25
Other assets: Materials and supplies		30,249 87

 Materials and supplies.
 30,249 87

 Debit balances from companies and individuals.
 161,130 00

 Total.
 \$2,415,862 12

# GENERAL BALANCE SHEET.-CR.

Capital stock \$1,000,000 0 Funded debt 1,200,000 0	\$2,200,000 00
Unfunded debt:         \$192,984 ??           Notes payable	215,862 12
Total	\$2,415,862 12
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by compa	ny.
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 20.5 miles.  Proportion of cost for Michigan: All.	\$2,214,036 60 108,001 79
CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.	
main line.	
Extensions and new sidings	\$1,917,538 30 7,895 31 18 81
New fences Machinery and tools New locomotives New cars	27 12 110,585 26 177,972 80
Total	\$2,214,086 60
Total charges to property account as above	2,214,036 60 2,214,036 60
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICHIGAN.	
FREIGHT BARNINGS.  Main line and branches:	
Local traffic 267 78 Through traffic 80,832 46	
Total traffic	\$80,900 25
Total freight department earnings	\$80,909 25
Per train mile	
Total transportation earnings, entire line	\$80,900 25
Transportation earnings per mile of road 8,946 85 Transportation earnings per train mile 6 15	
Total earnings from operation of road.  Total earnings per mile of road.  Total earnings per train mile.  Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan.	\$80,900 25 3,946 35 6 15 80,900 25 3,946 85
Total income from all sources	\$80,900 25
Proportion of income for Michigan.	80,900 25

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fencee, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.  Stationery and printing.  Total.	\$3,410 72 838 37 50 55 179 08 49 63 21 75
•	
MAINTENANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives Repairs and renewals of freight cars Stationery and printing Other expenses.  Total	\$180 00 469 64 834 06 4 00 10 00 
	====
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men. Fuel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives. Train supplies and expenses. Switchmen, flagmen and watchmen. Telegraph expenses. Station service. Station service. Station supplies. Loss and damage. Injuries to persons Clearing wrecks. Rent of buildings and other property Stationery and printing. Other expenses.	\$4,755 44 2,889 09 3,983 41 105 49 847 29 1,995 878 00 5,875 24 801 848 48 47 30 165 00 232 15 84 51
10181	\$20,114 0Z
GEMERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Stationery and printing (general offices) Other expenses	\$1,000 00 392 00 827 44 632 50 65 82 9 42
Total	\$2,927 18
RECAPITULATION OF EXPENSES. Per cent of expenses.  Maintenance of way and structures	\$4,050 10 1,497 70 23,414 32
General expenses, including taxes 9.18	2,927 18
Total operating expenses and taxes	\$31,889 30
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 13,150 miles.  Proportion of operating expenses and taxes for Michigan—Main line	\$1,555 57 2 42 31,889 30
Total proportion of expenses for Michigan	\$31,889 30
Percentage of expenses to earnings 39.42  Net earnings per mile of road	2,390 78 3 73

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Presque Isle to Ishpeming, August 12, 1896.

MAIN LINE. Miles.	Miles.
In Michigan, from Presque Isle to Ishpeming	20.50
Total length completed	20.50
Total length of road belonging to this company	
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	26.85
Gauge of track, 4 feet 8% inches.	
If north of parallel 44 of latitude? Yes.	
Give date road commenced to be built: December 1, 1895.	
Give date road completed: August 12, 1896.	
Give date road commenced to be operated: August 12, 1896.	
Where built from and to: Presque Isle (Marquette), to Ishpeming.	
Give exact number of miles: 20½ miles.	
Number of bridges and trestles in Michigan.  Number. 1	Aggregate ength, feet.
Wooden bridges         8           Combination bridges         7           Wooden trestles         2	1,898 3,304 2,412
Total	7,609
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Marquette & Presque Isle Street R. R. at Presque Isle. South Jackson mine track of C. & N. W. R'y at Negaunee.	
What railroads cross your road either over or under your grade in this State, and where? Under: D., S. & A. R. R. at Bagdad, Negaunee and Morgan Furnace. C. & N. W. R. R. at Negaunee.	
Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings of highways over or under railroad: under	9 1 8
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Yes.	
How are they treated? Blocked with wood. Stations.	
Number of stations on whole lines.	8
,	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	85 81

Classify your employée as per follo Conductors Engineers Firemen Laborers Shopmen Yardmea Others				Number. 5 5 5 80 5 15 20
	REPAIRS AND REMEV	VALS.		
	Fencing in Michig	an.	•	
How many miles of fencing have y	ou?			
Give the number of miles required and the counties in which need All in Marquette county	led:	-		84
Total miles required				34
	Dand Lad and dan	.alı		
Road bed and track.  Number of track sections in Michigan			3 7 5 54,120 54,120 2,640	
New rails put in track: Steel, tons 2,400; miles, 2014.	16 or road			2,040
Total miles of track laid with new	rails			
New bridges built during the year	: Number 15.	1		
Location.	Kind.	Material.	Month built.	Feet in length.
Between Presque Isle & Ishpeming Between Presque Isle & Ishpeming	Pile trestle Pile trestle, steel span.	Wood Steel	June to Aug.,'96 June to Aug.,'96	1,893 3,304
			resent esti- ated value. \$99,639 24	
Total		·	11	899,639 24
Number of platform cars  Number of ore cars  Number of conductors' way cars  Other cars as follows: 5 hand cars			400	\$6,596 19 152,486 91 1,933 20 274 77
Total			433	\$161,291 07
Number of locomotives equipped v Number of freight cars equipped v	vith power brakes vith power brakes			11 420
What patterns of power brakes ha All engines and cars equipped wi Are your freight cars being equipped of 1885, as amended by act No.	ed with automatic coupl 88, session laws of 1887?			
All are now equipped as required What pattern or patterns have you Tower.				

How are your passenger cars heated?

Have no passenger cars.

T. M. L.

# MILEAGE, TRAFFIC, ETC.

		Train	mileage.
--	--	-------	----------

	in Michigan.	
Miles run by freight trains during the year.		
Total mileage of trains earning revenue	18,150	
,		
Freight traffic.—Road all in State of Michigan.		
Tons. Miles	. Bate.	
Number of tons of through freight carried, earning revenue	•	
Total tons of freight carried, earning revenue 299,556		
Total mileage of through freight 6,138,76 Total mileage of local freight 2,98		
Total freight mileage or tons carried one mile	7	

Average ton haul for all freight.	20.48	
Average amount received for each ton haul		\$0 27 01.3
Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.		02.3
Estimated cost of carrying one ton one mile		0.52

Average ton haul for through freight.

# FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

## Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road.		Whole tons.	Per cent.	
Products of mines: Bituminous coal	290,813	8,528	8,523 290,818	2.84 97.08	
Products of forest: Lumber	202		202	0.07	
Merchandise		18	18	0.01	
Total tonnage	291,015	8,541	299,556	100.00	

# ADDITIONAL QUESTIONS.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 23 miles; belongs to this company (Lake Superior & Ishpeming Ry. Co.)

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURED.

April 8, A. J. Dube, axeman engineering corps, Presque Isle. Got in way of pile driver; his own fault. August 15, John Zekra, laborer, Presque Isle. Rail slipped; accidental. August 20, Philip Miller, laborer, Presque Isle. Attempting to lower chute unaided; his own carelessness. September 30, John McGovern, bridge carpenter, Bagdad. Did not notice approaching train; his own carelessness. September 28, David Maki, laborer, Presque Isle. Ran hook into his foot; carelessness.

# MICHIGAN RAILROAD RETURNS, 1896.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Miscellaneous					5	
Total					5	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	5 1 4

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Laborers		4 1	4
Total		5	5-

	STAT	E C	F (	IHC	Ο,	۱
ርፈ	THE	OF	Cn	VAH	OGA.	( DD.

Wm. 6. Mather, president, and James H. Hoyt, secretary, of the Lake Superior & Ishpeming Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed,

WM. G. MATHER, JAMES H. HOYT.

Subscribed and sworn to before me this 20th day of May, A. D. 1897.

[L. 8]

GUSTAV VON DEN STEINEN, Notary Public.

# ANNUAL REPORT

#### OF THE

# LEWISTON & SOUTHEASTERN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 19, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. M. KNEELAND, Lewiston, Mich. Vice President, HENRY MANTZ, Lewiston, Mich. Secretary, HENRY BAUMAN, Lewiston, Mich. Treasurer, HENRY BAUMAN, Lewiston, Mich. General Manager, HENRY MANTZ, Lewiston, Mich. General Superintendent, HENRY MANTZ, Lewiston, Mich. Chief Engineer, HENRY BAUMAN, Lewiston, Mich. General Freight Agent, CHAS. A. BIGELOW, Detroit, Mich.

### DIRECTORS.

D. M. KNEELAND, Lewiston, Mich.
H. A. BAUMAN, Lewiston, Mich.
HENRY MANTZ, Lewiston, Mich.
WILLIAM MANTZ, Lewiston, Mich.
BYRON B. FARRIES, Lewiston, Mich.
HERMAN LUNDENE, Lewiston, Mich.
GEO. L. ALEXANDER, Grayling, Mich.
Terms expire May 26, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 28, 1896. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 8. Amount of full paid stock held in Michigan at same date: 800,000. Date of annual meeting of stockholders: May 26, 1896. Fiscal year of company ends December 31. General offices of the company are located at Lewiston, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation	\$7,448 78	\$2,884 70
Net deficit.	\$5,064 08	
Balance for the year.	5,064 03	
ANALYSIS OF CAPITAL STOCK.  Amount authorized by charter or articles of association		\$60,000 00
Par value of shares \$100 Amount paid in on common.	\$60,000 00	
Total amount paid in, as per books of the company		60,000 00
Paid in per mile of road owned by company		6,000 00

# RECAPITULATION.

Total debt liabilities.  Stock and debt per mile of road, 10 miles	\$60,000 00 6,000 00
GENERAL BALANCE SHEET.—Dr.	
Construction account         \$20,300 97           Equipment account         4,480 85	
Other assets:	\$24,781 82
Sinking funds	35,935 97 \$60,717 79
10001	
GENERAL BALANCE SHEET.—Cr.	
Capital stock Profit and loss or income accounts.	\$60,000 00 717 79
Total.	960,717 79
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company.	
Total expended for construction and equipment Average cost per mile of road (not including sidings) 10 miles. Proportion of cost for Michigan	\$24,781 82 2,478 18 24,781 82
Purchased by present company.  When purchased: May 26, 1896. Original cost to present company, of road and equipment	\$19,000 00 5,575 97 205 85 24,781 82 2,478 18 24,781 82
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  FREIGHT HARNINGS.	24,101.02
Main line and branches: Through traffic	
Total traffic. \$2,384 70	
Total freight department earnings	\$2,384 70
Per train mile         \$0.61           Per mile of road         228.47	
Total transportation earnings, entire line.	\$2,384 70
Transportation earnings per mile of road	238 47 61
Total	\$2,884 70
Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	238 47 61 2,384 70 238 47
Total income from all sources	\$2,384 70
Proportion of income for Michigan	2,384 70

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway. Renewals of rails. Renewals of ties. Repairs and renewals of buildings and fixtures		\$4,318 57 549 95 507 45 200 00
Total.		\$5,575 97
MAINTENANCE OF EQUIPMENT.		<del></del>
Repairs and renewals of locomotives		\$5 85 200 00
Total		\$205 85
CONDUCTING TRANSPORTATION.	:	
Engine and roundhouse men.		<b>\$455</b> 00
Fuel for locomotives Oil, tailow and waste for locomotives. Train service Switchmen, flagmen and watchmen		325 00 29 88 600 00 100 00
Total		\$1,509 88
Total		<b>91,509 00</b>
GENERAL EXPENSES.		
Other expenses		\$157 08
Total		\$157 03
RECAPITULATION OF EXPENSES.	Per cent of	
	expenses.	<b>AT 171 00</b>
Maintenance of way and structures  Maintenance of equipment Conducting transportation General expenses, including taxes	74.87 2.75 20.27 2.11	\$5,575 97 205 85 1,509 88 157 08
Total operating expenses and taxes	100	\$7,448 73
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 3, Proportion of operating expenses and taxes for Michigan:  Main line	900 miles	\$744 87 1 91
Total proportion of expenses for Michigan		\$7,449 78
Percentage of expenses to earnings.	820.30	•
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Lewiston, Montmorency county, to forest terminus, Oscoda county, 1896	•	
MAIN LINE.		2011
In Michigan, from Lewiston to forest terminus.		Miles. 10
Total length completed.		10
Total length of branches owned by company in Michigan		8
Total length of road belonging to this company in Michigan  Aggregate length of tracks in Michigan belonging to this company, computed track	d as single	13
Gauge of track, 8 feet.		
If north of parallel 44 of latitude: Yes.		
Give date road commenced to be built: July 15, 1891.	•	

Give date road completed. December 15, 1891.

Give date road commenced to be operated: 1891.	
Where built from and to: Lewiston to forest terminus.	
Give exact number of miles:	
Crossings.—Railroad and highway.	
Number of crossings of highways at grade in this State	3
Stations.	
Number of stations on whole lines.	2
Moneto fe	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Classify your employes as per following list:	89 N
Brakemen.	Number. 1
EngineersFiremen	1
Laborers Yardmen	35 1
Road bed and track.	
Number of track sections in Michigan	10
Average number of men in each section gang  Number of new ties put in whole line during the year	10,109
Number of new ties put in track in Michigan	10,1 <b>09</b> 1,010
New rails put in track: Steel, tons 24, about ½ mile.	
ROLLING STOCK. Pr	esent esti-
Number of locomotives of 20 to 30 tons weight, exclusive of tender	\$1,500 00 500 00
Total 2	\$2,000 00
Number of platform cars	\$2,250 00 25 00
Total 81	\$2,275 00
10001	
MILEAGE, TRAFFIC, ETC.	
Train mileage.	Michigan.
Miles run by freight trains during the year	3,900
Total mileage of trains earning revenue	3,900
7 1 1 1 4 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1	
Freight traffic.—Road all in State of Michigan.  Tons. Miles.	Rate.
Number of tons of through freight carried, earning revenue 11,218	24000.
Total tons of freight carried, earning revenue	
Total mileage of through freight10	
Total freight mileage or tons carried one mile	
Average ton haul for through freight10	
Average ton haul for all freight 10	
Average amount received for each ton haul.	\$0 21.3
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for all freight.  Betimated cost of carrying one ton one mile.	21.3 21.3 66.4

# LEWISTON & SOUTHEASTERN RAILROAD COMPANY.

## FREIGHT TRAFFIC MOVEMENT .- BOAD ALL IN STATE OF MICHIGAN.

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	on this road.		Whole tons.	Per cent.
Products of forest:	11,218		11,218	100.00

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURNO.

September 17, Fred Gerniah, fireman, Gust Nelson, laborer, at end of road, or about 10 miles from Lewiston. Axle of car breaking.

# STATEMENT OF ACCIDENTS IN MICHIGAN.

Miscellaneous, employés injured=	2
SUMMARY OF ACCIDENTS IN MICHIGAN.	
Number of persons injured during the year	2 1
CLASSIFICATION OF PMPLOYÉS	

# KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Firemen Laborers		1 1	
Total		2	

STATE OF MICHIGAN, COUNTY OF MONTMORENCY, \ \}88.

D. M. Kneeland, president, and H. A. Baumau, secretary, of the Lewiston & Southeastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

D. M. KNEELAND, President.

H. A. BAUMAN, Secretary.

Subscribed and sworn to before me this 16th day of April, A. D. 1897.
[L. S.]

C. B. DRAKE. Notary Public.

# ANNUAL REPORT

#### OF THE

# MANISTEE & LUTHER RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 12, 1897.]

# · OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, R. G. PETERS, Eastlake, Mich.

Vice President, L. H. WITHEY, Grand Rapids, Mich.

Secretary, H. W. CAREY, Eastlake, Mich.

Treasurer, H. W. CAREY, Eastlake, Mich.

General Manager, R. G. PETERS, Eastlake, Mich.

Assistant General Manager, H. W. CAREY, Eastlake, Mich.

Attorney, A. J. DOVEL, Manistee, Mich.

# DIRECTORS.

R. G. PETERS, Eastlake, Mich.
L. H. WITHEY, Grand Rapids, Mich.
H. W. CAREY, Eastlake, Mich.
A. J. DOVEL, Manistee, Mich.
G. M. BURR, Manistee, Mich.
Terms expire April 2, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 26, 1886. Number of st-ckholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$300,000. Date of annual meeting of stockholders: First Tuesday in April. Fiscal year of company ends December 31. General offices of the company are located at Eastlake, Mich.

# GENERAL EXHIBIT.

Debit.	Credit.
Total earnings from operation \$36,966 42	\$51,392 18
Total expenses, including taxes	
Net income	\$14,425 71
Rentals of buildings and water front	2,000 00
Balance for the year	\$12,425 71
Balance (profit and loss) last year	85,471 85
Balance forward to next year.	\$97,897 56

	ANALYSIS OF CAPITAL STOCK.	
Amount authorised by charter of Par value of shares	er articles of association	\$400,000 00
	r book of the company	800,000 00
Paid in per mile of road owned	by company	4,761 90
	1	<del></del>
	ANALYSIS OF DEBT ACCOUNTS.	
	UNFUNDED DEBT.	
For what incurred.	Is the same to be funded or how liquidated.	Amount.
For current balances		\$381 09
	RECAPITULATION.	
Total unfunded debt		\$381 09
Total debt liabilities		\$381 09
Amount of debt liabilities per m Total amount of stock and debt Stock and debt per mile of read	nile of road, 68 miles	6 09 300,881 09 4,767 99
Stock and dept bet mus of toad	, 00 IIII.	
	GENERAL BALANCE SHEET.—Dr.	
Construction account	\$294.474.67	
Cash items:	71,159 22 	\$365,688 89
Other assets:	91,000 09	1,680 69
	es and individuals	30,964 07
Total		\$398,278 65
	GENERAL BALANCE SHEET.—Cr.	-
Capital stock		\$800,000 00
Unfunded debt:		881 09
Profit and loss or income acco	ounts	97,897 56
Total		\$898,278 65
	COST OF ROAD AND EQUIPMENT.	
Total cost for constru	ction and equipment of road and branches built by compan	y.
	a and equipment	_
	Purchased by present company.	
When purchased: Constructed	• • •	
Original cost to present compan Amount expended since purcha Amount expended since purcha Total cost to date of report	and equipped by this company.  19, of road and equipment.  20 account of construction.  20 account of equipment.  20 including sidings) 68 miles.	\$865,688 89 294,474 67 71,159 22 365,688 59 5,803 71
	•	

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

Moin bine,	
Extensions and new sidings.	\$10,110 48
Extensions and new sidings  Machinery and tools	82 15
Total charges to property account as above	<b>\$1</b> 0,1 <b>92 63</b>
Net addition to property account.	10,192 63
Net addition to property account.	10,192 05
analysis of Earnings.—Road all in State of Michigan.	
PASSENGER HARNINGS.	
Main line and branches:	
Local fares	
477	
Total passenger department earnings	<b>\$197 00</b>
	<b>V</b> 44
Per mile of road	
PREIGHT BARNINGS.	
Main line and branches:	
Local traffic	
Total freight department earnings	51,195 13
Per mile of road	
For mile or road.	
Total transportation earnings, entire line	\$61,892 18
A Over at analysis as a control of a training of a training of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	401,000 10
Transportation earnings per mile of road 2815 74	
Transportation earnings per mile of road \$815.74 Total earnings from operation of road	<b>51,392 1</b> 3
Total earnings per mile of road 815 74	F1 000 10
Total earnings per mile of road 815 74 Proportion of taxable earnings for Michigan 815 74 Taxable earnings per mile of road in Michigan 815 74	51,392 13
TRY OLD OPTITION DEL MITTE AL LORA IN WIGHT CONTRACTOR CONTRACTOR DE LE	
	251.892 18
Total income from all sources	\$51,392 18
	\$51,392 18
Total income from all sources	\$51,892 18
	\$51,392 18
Total income from all sources  ANALYSIS OF EXPENSES.	\$51,392 18
Total income from all sources	\$51,392 18
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.	
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.	\$9,502 55 832 39
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.	\$9,502.55
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway	\$9,502 55 \$32 39 98 00
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.	\$9,502 55 832 39
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts  Repairs and renewals of buildings and fixtures  Total	\$9,502 55 \$32 39 98 00
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway	\$9,502 55 \$32 39 98 00
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.	\$9,502 55 832 39 98 00 \$9,932 94
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.	\$9,502 55 \$32 39 98 00
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives. Repairs and renewals of freight cars.	\$9,502 55 332 39 98 00 \$9,932 94 \$4,691 85 4,291 53
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.	\$9,502 55 832 39 98 00 \$9,932 94
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives. Repairs and renewals of freight cars.	\$9,502 55 332 39 98 00 \$9,932 94 \$4,691 85 4,291 53
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives. Repairs and renewals of freight cars  Total.	\$9,502 55 332 39 98 00 \$9,932 94 \$4,691 85 4,291 53
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives. Repairs and renewals of freight cars.	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 58 \$8,963 88
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs and renewals of bridges and culverts.  Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of freight cars  Total.  CONDUCTING TRANSPORTATION.	\$9,502 55 \$32 39 \$6 00 \$9,982 94 \$4,691 85 4,291 53 \$8,983 88 \$2,622 09
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs and renewals of bridges and culverts.  Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of freight cars  Total.  CONDUCTING TRANSPORTATION.	\$9,502 55 \$32 39 \$8 00 \$9,932 94 \$4,691 85 4,291 58 \$3,963 28 \$2,622 09 4,911 31
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives  Water supply for locomotives  Water supply for locomotives	\$9,502 55 \$32 39 \$8 00 \$9,932 94 \$4,691 85 4,291 58 \$3,963 28 \$2,622 09 4,911 31
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives  Water supply for locomotives  Water supply for locomotives	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 81 111 81 814 26
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives  Water supply for locomotives  Water supply for locomotives	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 81 111 81 814 26
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives  Water supply for locomotives  Water supply for locomotives	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 81 111 81 814 26
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of locomotives  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives  Water supply for locomotives  Water supply for locomotives	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 81 111 81 814 26
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives Water supply for locomotives Water supply for locomotives Train supplies and expenses Train service Train service Train service Train service Station service Loss and damage.	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 81 111 81 814 26
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs and renewals of bridges and culverts. Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of freight cars  Total.  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives. Water supply for locomotives. Water supply for locomotives. Train service. Train service. Train service. Train service. Train service. Train service.  Train service.  Taggraph expenses Station service. Loss and damage. Injuries to persons	\$9,502 55 \$32 39 \$6 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 31 111 81 814 26 2,711 11 82 85 22,845 74 45 85 45 00
ANALYSIS OF EXPENSES.  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway Repairs and renewals of bridges and culverts Repairs and renewals of buildings and fixtures.  Total  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of freight cars  Total  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives Water supply for locomotives Water supply for locomotives Train supplies and expenses Train service Train service Train service Train service Station service Loss and damage.	\$9,502 55 832 39 98 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 81 111 81 814 26
Total income from all sources  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs and renewals of bridges and culverts. Repairs and renewals of buildings and fixtures.  Total.  MAINTENANCE OF EQUIPMENT.  Repairs and renewals of freight cars  Total.  CONDUCTING TRANSPORTATION.  Engine and roundhouse men Fuel for locomotives. Water supply for locomotives. Water supply for locomotives. Train service. Train service. Train service. Train service. Train service. Train service.  Train service.  Taggraph expenses Station service. Loss and damage. Injuries to persons	\$9,502 55 \$32 39 \$6 00 \$9,932 94 \$4,691 85 4,291 53 \$8,963 88 \$2,622 09 4,911 31 111 81 814 26 2,711 11 82 85 22,845 74 45 85 45 00

# GENERAL EXPENSES.

GENERAL MATERIES.	
Salaries of general officers.	\$1,000 00
Salaries of cierks and attendants	1,000 00
Insurance	88 20
Other expenses	15 40
Taxes	1,496 12
Total	\$3,653 22
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures  Maintenance of equipment.	\$9,982 94
Maintenance of equipment.	8,988 88 14,396 88
Conducting transportation General expenses, including taxes.	8,658 22
Total operating expenses and taxes.	\$36,966 42
Total proportion of expenses for Michigan	86,966 42
•	
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Eastlake, Mich., to Sec. 4, 18, 12, June, 1886.	
· MAIN LIMB.	3603-
Miles.	Miles. 45
In Michigan, from Eastlake to Sec. 4, 18, 12.	10
Brancens.	
From main line to forest terminals.	
Total length of road owned by company in Michigan	63
	•
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	68
Gauge of track, 8 feet.	
Number of bridges and trestles in Michigan.	
• •	Aggregate
	length, feet.
Wooden bridges	150 60
Total4	
Crossings.—Railroad and highway.	
Orosekys. Isaan oon and myrandy.	
What railroads cross your road at grade in this State, and at what locality? F. & P. M. R. B. at Eastlake. G. B. & I. B. R. at Careyville. C. & W. M. B. B. at Peters.	
At what crossings are interlocking and derailing switches in operation?	
F. & P. M. R. R. C. & W. M. R. R.	•
What pattern or patterns have you adopted? Second-class interlocker.	
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
The many miles of females have you	
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan	62

# Road bed and track.

Rodu deg and track.		
Number of track sections in Michigan		4
Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year		15
Average number of men in each section gang		10
Number of new ties put in whole line during the year		7,000 7,000
Number of new ties put in track in Michigan Average number of new ties per mile of road.	111	1,000
ROLLING STOCK.		
		Present esti-
		nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	. 8	\$10,500 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender	8	9,000 00
Makal		A10, 800, 00
Total	. 6	\$19,500 00
Non-borod necessary 0 -both to be the complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete c		<b>64</b> F00 00
Number of passenger cars—8-wheel, including official cars  Number of box freight cars	. 1	\$1,500 00 450 00
Number of platform cars	. 10	2,000 00
Number of conductors' way cars	. 1	125 00
Other cars	281	46,200 00
m-4-1		
Total	245	<b>\$69,775 00</b>
Annual Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the		
of 1885, as amended by act No. 88 session laws of 1887?	act No. 147,	session laws
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Regular logging car coupling.		
How are your passenger cars heated?		
Stoves.		
•		
MILEAGE TRAFFIC, ETC.		
Passenger traffic.—Road all in State of Michigan.		
Numbers	Miles.	Rate.
		ALE UD.
Number of local passengers carried, earning revenue		ALE US.
Number of local passengers carried, earning revenue	3	Date.
	3	nau.
Number of local passengers carried, earning revenue	3	Acto.
Number of local passengers carried, earning revenue	3	nate.
Number of local passengers carried, earning revenue		nave.
Number of local passengers carried, earning revenue		Anto.
Number of local passengers carried, earning revenue	20	<b>\$0 60</b>
Number of local passengers carried, earning revenue	20	<b>\$0 6</b> 0
Number of local passengers carried, earning revenue	20	<b>\$0.60</b>
Number of local passengers carried, earning revenue	20	<b>\$0 60</b> OB
Number of local passengers carried, earning revenue	20	<b>\$0 6</b> 0
Number of local passengers carried, earning revenue	20	<b>\$0 6</b> 0
Number of local passengers carried, earning revenue	20	<b>\$0 60</b> OB
Number of local passengers carried, earning revenue	20	<b>\$0 6</b> 0
Number of local passengers carried, earning revenue	20	<b>\$0 6</b> 0
Number of local passengers carried, earning revenue	20	<b>\$0 6</b> 0
Number of local passengers carried, earning revenue	20	\$0 60 08 08
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$0 60 08 08 
Number of local passengers carried, earning revenue	20	\$1 00 1 00 1 00 1 00
Number of local passengers carried, earning revenue	20	\$1 00 1 00 1 00 1 00 50,000
Number of local passengers carried, earning revenue	20	\$1 00 1 00 1 00 1 00
Number of local passengers carried, earning revenue	20 Michigan.	\$1 00 1 00 1 00 0 15
Number of local passengers carried, earning revenue	20 Michigan.	\$1 00 1 00 1 00 1 00 50,000

# Telephone.

Number of miles of telephone on your road, and to whom does it belong? 35 miles.

STATE OF MICHIGAN, Solution of Manister,

Henry W. Carey, secretary and treasurer, of the Manistee & Luther Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. of R. R.]

HENRY W. CAREY.

Subscribed and sworn to before me this 9th day of March, A. D. 1897. [L. S.]

RAYMOND B. GILLETTE, Notary Public.

# ANNUAL REPORT

#### OF THE

# QUINCY & TORCH LAKE RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 22, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, THOS. F. MASON, New York City.
Vice President, S. B. HARRIS, Hancock, Mich.
Secretary, Auditor and Treasurer:
E. D. JOHNSON, Hancock, Mich.
General Manager, S. B. HARRIS, Hancock, Mich.
Ohief Engineer, J. L. HARRIS, Hancock, Mich.
Attorney, T. B. DUNSTAN, Hancock, Mich.

# DIRECTORS.

THOS. F. MASON, New York City.
S. B. HARRIS, HARROCK, Mich.
JAMES ROSS, HARROCK, Mich.
THOS. WHITTLE, HARROCK, Mich.
GEO. S. NORTH, HARROCK, Mich.
E. D. JOHNSON, HARROCK, Mich.
T. B. DUNSTAN, HARROCK, Mich.
Terms expire June 19, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 29, 1888.

Number of stockholders at date of last election: 7.

Number of stockholders in Michigan at same date: 6.

Amount of full paid stock held in Michigan at same date. \$600.

Date of annual meeting of stockholders: Third Monday in June.

Flical year of company ends: December 31.

General offices of the company are located at Hancock, Mich.

GENERAL EXHIBIT.  Debit.	Credit.
Total earnings from operation	\$28,446 85
Total expenses, including taxes. \$28,446 85	I
Balance (profit and loss) last year	\$12,992 21
Balance forward to next year	12,992 21

# ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.  Par value of shares	\$50,000 00
Total amount paid in, as per books of the company	50,000 00
Paid in per mile of road owned by company, 6 miles	8,838 34

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
100 bonds, \$1,000 each	6%	1905		\$100,000 00

# UNFUNDED DEBT.

For what insurred.	Is the same to be funded or how liquidated?	Amount.
For construction		\$65,921 22

# RECAPITULATION.

Total funded debt	\$100,000 00 65,921 22
Total debt liabilities	\$165,921 22
Amount of debt liabilities per mile of road, & miles.  Total amount of stock and debt  Stock and debt per mile of road, & miles.	27,658 54 215,921 22 35,986 85

# GENERAL BALANCE SHEET.-Dr.

Equipment account	\$228,913 78
Total	\$228,918 78
GENERAL BALANCE SHEET.—Cr.	

Capital stockFunded debt	\$50,000 00 100,000 00
Unfunded debt: Vouchers and accounts Profit and loss or income accounts	65,921 52 12,992 21
Total	\$228,913 73

# COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	\$228,913 73 88,152 <b>29</b>

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR. Main line: \$128 30 New cars .... \$128.80 Net addition to property account..... \$128 30 ANALYSIS OF RARNINGS .- ROAD ALL IN STATE OF MICHIGAN. PRETABLE BARNINGS. Main line and branches: Through traffic 238,446 85 \$28,446 85 Total traffic..... \$28,446 85 1 82 4.741 14 Total transportation earnings, entire line \$28,446 85 28,446 85 Total earnings from operation of road..... 4,741 14 1 82 28,446 85 Total income from all sources Proportion of income for Michigan: All. ANALYSIS OF EXPENSES. MAINTENANCE OF WAY AND STRUCTURES. \$7,447 22 89 52 117 92 Repairs of roadway Renewals of ties Bepairs and renewals of buildings and fixtures \$7,654 66 MAINTENANCE OF EQUIPMENT. \$4,278 94 CONDUCTING TRANSPORTATION. Superintendence Engine and roundhouse men Fuel for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Station supplies Other expenses \$588 35 4,212 65 8,829 60 273 66 1,739 47 5,413 95 826 34 17 75 \$15,901 77 GENERAL EXPENSES. \$611 48

RECAPITULATION OF EXPENSES.	. •
Per cent Expense	8.
Maintenance of way and structures 28.91 Maintenance of equipment 15.04	
Conducting transportation 55.90 General expenses, including taxes 2.15	15,901 77
Total operating expenses and taxes	\$28,446 85
Operating expenses and taxes per mile of road	\$4,741 14
DESCRIPTION OF BOAD.	
Date when the road was opened for use between its present termini: From Quincy Mine to Quincy Mill, March, 1890.	
MAIN LINE.	
	Miles.
In Michigan, from Quincy Mine to Quincy Mill.	6
Total length completed	. 6
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	•
Aggregate length of tracks in Michigan belonging to this company, computed as single track	7.88
Gauge of track, 3 feet	
Number of bridges and trestles in Michigan.	Aggregate
Wooden trestles	Length, feet.
	1,517
	1,517
Crossings.—Railroad and highway.	1,517
	1,517
Crossings.—Railroad and highway.	1,517
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?	1,517
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.	1,517
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:	1,517
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. B. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines	
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. ½ Sec. 25, T. 55 N., R. 34 W.  Stations.	1,517
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. B. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines	
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Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau.  Employés.  Number of persons regularly employed on all roads operated by company, including officials	2 2 2
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials (all in Michigan).  Classify your employée as per following list:  Brakemen	2 2 2 2 Number.
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. R. at S. E. M. Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau.  Employés.  Number of persons regularly employed on all roads operated by company, including officials (all in Michigan).  Classify your employés as per following list:  Brakemen  Conductors.  Engineers.	2 2 2 2 Number.
Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials (all in Michigan)  Classify your employés as per following list:  Brakemen  Conductors	2 2 2 2 Number.
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# Road bed and track.

Road bed and track.		
Number of track sections in Michigan	·····	1 6.
Average length of sections (miles)  Average number of men in each section gang.  Number of new ties put in whole line during the year		740
Number of new ties put in track in Michigan  Average number of new ties per mile of road.		748 124
Average number of new ties per mine of rost.		
Bridges and culverts.		
Amount of trestle work replaced with stone during the year (linear feet).		870-
ROLLING STOCK.		
	Number	Present esti- . mated value.
Number of locomatives of more than 30 tons weight, exclusive of tender		8 \$16,000 00
Total		8 \$16,000 00
Number of platform cars		8 \$1,100 00
Number of platform cars. Number of ore cars Number of conductors' way cars.	!	50 16.000 00
Number of conductors' way cars		1 150 00 2 800 00
Other cars		
Total	····	\$18,050 00
What patterns of power brakes have you in use, and the number of locom	otives and car	s with each?
Eames vacuum, 3 locomotives.		
What patterns of power brakes have you in use, and the number of locom Eames vacuum, 3 locomotives.  What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)		
What pattern or patterns have you adopted for use?		In Michigan.
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.		
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.		15,686
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.		15,686
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year	n.	15,686
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michigan		15,686
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michigan	n. ns. Mile:	15,686
What pattern or patterns have you adopted for use? Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year	n. Mile: 543 543	15,686
What pattern or patterns have you adopted for use?  Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michiga  Total tons of through freight carried, earning revenue.  555  Total tons of freight carried, earning revenue.  555  Total freight mileage or tons carried one mile.  3,383  Average ton haul for through freight.  Average amount received for each ton haul.  Average receipts ton per mile, for through freight.	ns. Miles 543 543 258	15,686 15,686 15,686 8. Rate. 6
What pattern or patterns have you adopted for use?  Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michiga  Number of tons of through freight carried, earning revenue.  555  Total freight mileage or tons carried one mile.  3,383  Average amount received for each ton haul.	ns. Miles 543 543 258	15,686 15,686 15,686 8. Rate. 6
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What pattern or patterns have you adopted for use?  Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year	n. Miles 543 543 258	15,686- 15,686- 15,686- 8. Rate. 6
What pattern or patterns have you adopted for use?  Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michiga  Total traffic of through freight carried, earning revenue.  555  Total tons of freight carried, earning revenue.  555  Total freight mileage or tons carried one mile.  Average ton haul for through freight.  Average receipts ton per mile, for through freight.  Estimated cost of carrying one ton one mile.  FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE	ns. Miles 543 543 258 	15,686- 15,686- 15,686- 8. Rate. 6
What pattern or patterns have you adopted for use?  Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michiga  Number of tons of through freight carried, earning revenue.  555  Total tons of freight carried, earning revenue.  555  Total freight mileage or tons carried one mile.  Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE  Company's material excluded.	n. Miles 543 543 258 OF MICHIGAL	15,686- 15,686- 15,686- 8. Rate. 6
What pattern or patterns have you adopted for use?  Link and pin. (Deadwood meets before coupling is made.)  MILEAGE TRAFFIC, ETC.  Train mileage.  Miles run by freight trains during the year.  Total mileage of trains earning revenue.  Freight traffic.—Road all in State of Michiga  Total tons of through freight carried, earning revenue.  Total freight mileage or tons carried one mile.  Average ton haul for through freight.  Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Estimated cost of carrying one ton one mile.  FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE  Company's material excluded.  FREIGHT ORIGINATING ON THIS BOAD.—WHOLE TO	ns. Miles 543 543 258 OF MICHIGAL	15,686

STATE OF MICHIGAN, Sec.

8. B. Harris, vice president, and E. D. Johnson, secretary and treasurer, of the Quincy & Torch Lake Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

S. B. HARRIS, Vice President, E. D. JOHNSON, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

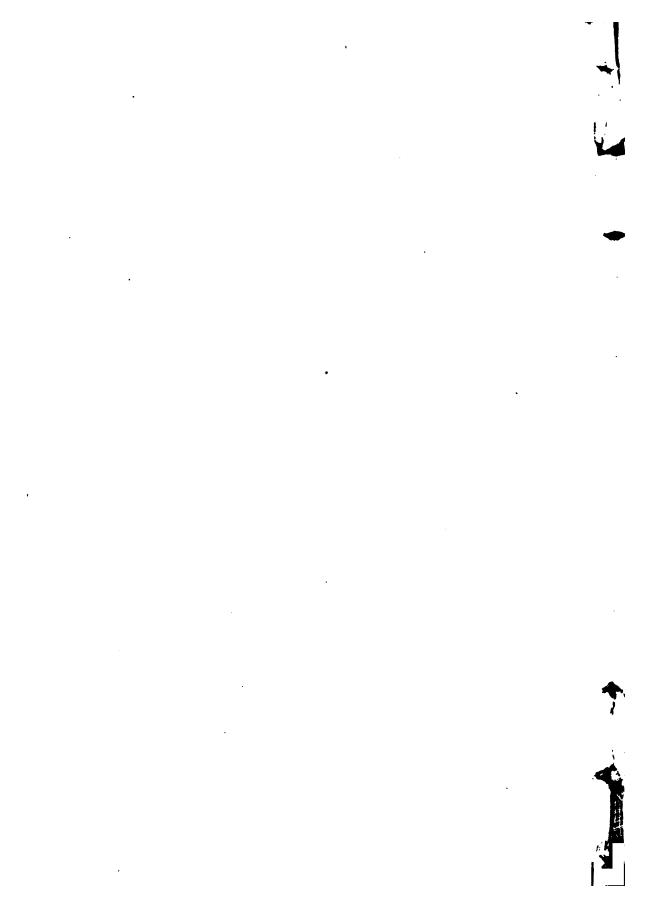
A. F. MACDONALD, Notary Public.

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